This printed version of the Schedule of Classes is current as of 1/18/16 9:30 AM.

AASP African American Studies Fall 2015

AASP100 **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Shane Walsh MWF 10:00am - 10:50am	Seats (Total: 31) WDS 1114
0201	Shane Walsh MWF 12:00pm - 12:50pm	Seats (Total: 31) ITV 1100
0301	Jonathan England TuTh 9:30am - 10:45am	Seats (Total: 31) TYD 1114
0401	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 27) HBK 0109
0501	Jason Nichols TuTh 11:00am - 12:15pm	Seats (Total: 35) SYM 0215
0601	Jason Nichols TuTh 2:00pm - 3:15pm	Seats (Total: 35) TYD 1101

AASP100H **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 5) HBK 0109

AASP101 **Public Policy and the Black Community**

Credits: 3	Grading Method: Regular, Pass-Fail	CORE: SB	General Education: DSHS

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

0101	Gniesha Dinwiddie	Seats (Total: 32)
	TuTh 2:00pm - 3:15pm	SQH 1103

AASP187I **The New Jim Crow: African-Americans, Mass Incarceration and the Prison Industrial Complex**

Credits: 3	Grading Method: Regular, Pass-Fail	General Education: DSHS, DVUP, SCIS

Recommended: AASP100.

Students will examine the birth of the racial caste system following the abolition of slavery, the parallels between the racial hierarchy of the Jim Crow system and contemporary mass incarceration, and the rise of the prison industrial complex as a multi-billon business which thrives on the oppression of low-income populations and poor communities of color.

0101	Joseph Richardson	Seats (Total: 120)
	MW 3:00pm - 4:15pm	SHM 2102

AASP200 **African Civilization**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: DSHU

A survey of African civilizations from 4500 B.C. to present. Analysis of traditional social systems. Discussion of the impact of European colonization on these civilizations. Analysis of the influence of traditional African social systems on modern African institutions as well as discussion of contemporary processes of Africanization.

0101	Ibrahim Kargbo	Seats (Total: 45)
	Th 4:00pm - 6:30pm	TYD 2111

AASP202 **Black Culture in the United States**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH, D	General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Renina Jarmon MWF 11:00am - 11:50am	Seats (Total: 35) MTH 0303
0102	Renina Jarmon MWF 1:00pm - 1:50pm	Seats (Total: 35) SQH 1121
0103	Robert Choflet TuTh 11:00am - 12:15pm	Seats (Total: 35) TYD 0111
0104	Robert Choflet TuTh 2:00pm - 3:15pm	Seats (Total: 35) LEF 1201

AASP202H **Black Culture in the United States**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Robert Choflet TuTh 11:00am - 12:15pm	Seats (Total: 8) TYD 0111

AASP274 **Creative Writing Through The Eyes of African Americans: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not have completed any courses from ENGL278C, AASP274, AASP298W, ENGL274, ENGL271, ENGL294N, or ENGL294. Also offered as: ENGL274. Credit only granted for: ENGL274, ENGL278C, ENGL294, ENGL294N, AASP274 or AASP298W. Formerly: AASP298W.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Dorothy Phaire TuTh 9:30am - 10:45am	Seats (Total: 20) NCC 0120

AASP297 **Research Methods in African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP101 or AASP202. Restriction: Must be in African American Studies program. Credit only granted for: AASP297 or AASP299R. Formerly: AASP299R.

Introduces African American Studies majors to the basic research skills methodologies, sources, and repositories for studying African Diaspora. Students will be required to select a research topic, write a research proposal, develop an annotated bibliography, and in the process will be prepared for completing their senior thesis or other significant writing projects necessary to fulfill the requirements of the major.

0101	Sharon Harley TuTh 11:00am - 12:15pm	Seats (Total: 20) TLF 1102

AASP298C **Special Topics in African American Studies; African-American History to 1865**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Also offered as AASP298C. Credit will be granted for AASP298C or HIST 254.

0101	Dennis Doster TuTh 5:00pm - 6:15pm	Seats (Total: 40) KEY 0116

AASP298I **Special Topics in African American Studies; Introduction to Black Women's Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

0101	Lamonda Horton-Stallings TuTh 3:30pm - 4:45pm	Seats (Total: 30) ASY 3211

AASP298L **Special Topics in Afro-American Studies: African-American Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as ENGL234. Credit granted for AASP298L or ENGL234.

0201	Abbey Morgan	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 0103

AASP301 **Applied Policy Analysis and the Black Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP101; and (ECON201 or ECON200). Recommended: Completion of one semester of statistics is recommended.

Development and application of the tools needed for examining the effectiveness of alternative policy options confronting minority communities. Review policy research methods used in forming and evaluating policies. Examination of the policy process.

0101	Ricco Hall	Seats (Total: 24)
	W 6:30pm - 9:00pm	TLF 1101

AASP313 **Black Women in United States History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher. Also offered as: WMST314. Credit only granted for: AASP498W, AASP313, HIST329E, WMST314, or WMST498N. Formerly: AASP498W.

Black American women's history is examined from slavery to the present. The principal focus of the readings discussions and student assignments will be based upon gaining a fuller understanding of the effect of race, class and gender on the life cycles and multiple roles of Black women as mothers, daughters, wives, workers and social change agents. A variety of primary source materials on black women's experiences will be utilized.

0101	Elsa Barkley Brown	Seats (Total: 35)
	W 5:30pm - 8:00pm	KEY 0103

AASP314 **The Civil Rights Movement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: AASP100 or HIST157.

Survey of the twentieth century civil rights movement from the desegregation of UM Law School through the National Black Political Congress in Gary in 1972. Major themes include leadership, legal and constitutional challenges, non-violence, Black Power, and Pan-Africanism.

0101	Jerry Semper W 4:00pm - 6:30pm	Seats (Total: 37) TYD 2108

AASP386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-African American Studies department; and junior standing or higher.

0101	Valencia Skeeter Th 10:00am - 12:30pm	Seats (Total: 10) TLF B0106

AASP395 **Fundamentals of Quantitative Research in Socio-Cultural Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in African American Studies program; and junior standing or higher.

Introduction to quantitative methods for African American Studies major in the cultural and social analysis concentration. Basics of survey design and experimental design and data analysis and use of statistical software programs.

0101	Gniesha Dinwiddie TuTh 11:00am - 12:15pm	Seats (Total: 20) SKN 1115

AASP396 **Independent Study Non-Thesis Option**

Credits: 3 Grading Method: Regular

Prerequisite: AASP386 and AASP297. Restriction: Must be in African American Studies program. Credit only granted for: AASP396 or AASP397.

A research seminar that allows African American Studies majors to complete an independent study research project in lieu of completing the AASP397: Senior Thesis. Students will examine various concepts of race, gender, labor and ethnicity in the seminar lecture component to be applied toward their specific research projects.

0101	Sangeetha Madhavan W 9:30am - 12:00pm	Seats (Total: 10) TLF 1102

AASP397 **Senior Thesis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-African American Studies department.

Directed research in African American Studies resulting in the completion and defense of a senior thesis.

Contact department for information to register for this course.

AASP398G **Selected Topics in the African Diaspora; Gender, Labor, and Racial Identify in Diaspora Communities**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

0101	Sharon Harley	Seats (Total: 35)
	Tu 2:00pm - 4:30pm	TYD 0102

AASP398Q **Selected Topics in the African Diaspora; Black Baltimore in the Post Racial U.S: African American Urban Culture in the Age of Obama**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

0101	Robert Choflet	Seats (Total: 35)
	Th 4:00pm - 6:30pm	TYD 1114

AASP400 **Directed Readings in African American Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, DVUP

Prerequisite: AASP202 or AASP100.

The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

Also offered as WMST498Y. Credit will be granted for one of the following: AASP400, AASP400H, or WMST498Y.

0101	Sangeetha Madhavan	Seats (Total: 25)
	W 2:00pm - 4:30pm	TYD 2102

AASP400H **Directed Readings in African American Studies**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Prerequisite: AASP202 or AASP100.

The readings will be directed by the faculty of African American Studies. Topics to be covered will be chosen to meet the needs and interests of individual students.

For general honors students only.

0101	Sangeetha Madhavan W 2:00pm - 4:30pm	Seats (Total: 5) TYD 2102

AASP478K **Humanities Topics in African American Studies; African-American Literature: 1945 to Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

Also offered as ENGL472. Credit granted for ENGL472 or AASP478K.

SA13	Instructor: TBA	Seats (Total: 0)

AASP478N **Humanities Topics in African American Studies; African-American Literature: 1910-1945**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

Also offered as ENGL471. Credit granted for ENGL471 or AASP478N.

0101	Julius Fleming MW 2:00pm - 3:15pm	Seats (Total: 23) TWS 1107

AASP498F **Special Topics in Black Culture; African-American Women Filmmakers**

Credits: 3 | Grading Method: Regular, Pass-Fail

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as WMST496 and THET428W. Credit granted for WMST496, AASP498F, or THET428W. Examines the cinematic artistry of African-American women filmmakers and the ways in which these films address the dual and inseparable roles of race and gender.

0101	Lamonda Horton-Stallings	Seats (Total: 20)
	Tu 5:30pm - 8:00pm	HBK 0302J

AASP498O **Special Topics in Black Culture; African American and Latino Social, Cultural and Political Relations: 1940 to Present**

Credits: 3 Grading Method: Regular

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

0101	Jason Nichols	Seats (Total: 35)
	W 4:00pm - 6:30pm	TYD 1118

AASP498V **Special Topics in Black Culture; African American Urban History 1877-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Also offered as HIST419C. Credit granted for HIST419C or AASP498V.

0101	Kelly Quinn	Seats (Total: 36)
	W 5:30pm - 8:00pm	KEY 0102

AASP499N **Advanced Topics in Public Policy and the Black Community; Gentrification: The Evolution of Urban Neighborhoods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Leila Batties	Seats (Total: 35)
	Th 3:30pm - 6:00pm	LEF 1201

AASP499P **Advanced Topics in Public Policy and the Black Community; African-American Politics from Frederick Douglass to Barack Obama**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Jonathan England	Seats (Total: 35)
	Tu 3:30pm - 6:15pm	SQH 1121

AAST Asian American Studies Fall 2015

AAST200 **Introduction to Asian American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SB, D | General Education: DSHS, DVUP

The aggregate experience of Asian Pacific Americans, from developments in the countries of origin to their contemporary issues. The histories of Asian Pacific American groups as well as culture, politics, the media, and stereotypes, viewed from an interdisciplinary perspective.

Also offered as AMST298C. Credit granted for AAST200 or AMST298C.

0101	Janelle Wong	Seats (Total: 70)
	MW 2:00pm - 3:15pm	LEF 2166

AAST222 **Immigration and Ethnicity in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D

Credit only granted for: AAST222 or HIST222.

The history of immigration and the development of diverse populations in the United States are examined. Topics include related political controversies, the social experiences of immigrants, ethnicity, generations, migration, inter-group relations, race and diversity in American culture.

Additional Note: Also offered as AMST298Z and IMMR219A. Credit only granted for AAST222, AMST298Z, HIST219L, HIST222, or IMMR219A.

0101	Jeannette Soon-Ludes	Seats (Total: 40)
	M 5:00pm - 7:30pm	SQH 1121

AAST233 **Introduction to Asian American Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: ENGL233. Credit only granted for: ENGL233 or AAST233.

A survey of Asian American literature with an emphasis on recurrent themes and historical context.

0101	Lawrence-Minh Davis M 5:00pm - 7:30pm	Seats (Total: 35) SYM 0215	

AAST298R **Special Topics in Asian American Studies; Race, Gender, and Ethnicity in American Theatre and Culture,1750-1900**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introductory multidisciplinary and interdisciplinary educational experience to explore issues relevant to Asian American life, cultural experiences; and political, economic, and artistic development.

0101	Esther Lee TuTh 11:00am - 11:50am Th 12:00pm - 12:50pm	Seats (Total: 25) ARC 1103 EDU 2102	 Discussion
0102	Esther Lee TuTh 11:00am - 11:50am Th 1:00pm - 1:50pm	Seats (Total: 25) ARC 1103 JMZ 0208	 Discussion

AAST378 **Experiential Learning**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Field experience/internship in professional organizations and appropriate private and governmental agencies serving the Asian American community.

0101	Jeannette Soon-Ludes Contact instructor or department for details.	Seats (Total: 5)

AAST388 **Independent Research**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Directed, independent study in Asian American Studies resulting in the completion of an original research paper.

0101	Jude Paul Dizon	Seats (Total: 5)
	Contact instructor or department for details.	

AAST398A **Selected Topics in Asian American Studies; Vietnamese American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328O. Credit only given for AAST398A or AMST328O. The historical and contemporary experiences of Vietnamese Americans. Topics include war and refugee experiences, memory and memorialization, the second generation, and issues of identity in relation to race, ethnicity, gender, sexuality, and religion.

0101	Thu Khuc	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	JMP 1202

AAST398D **Selected Topics in Asian American Studies; Filipino American History and Biography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328J. Credit granted for AAST398D or AMST328J. Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy. We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.

0101	Gemirald Daus	Seats (Total: 35)
	Tu 5:00pm - 7:45pm	ASY 3207

AAST398E **Selected Topics in Asian American Studies; Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328V. Credit granted for AAST398E or AMST328V. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.

0101	Thu Khuc	Seats (Total: 38)
	TuTh 5:00pm - 6:15pm	JMP 1202

AAST498E **Advanced Topics in Asian American Studies; Asian American Sexualities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Also offered as AMST418T, LGBT448E and WMST498C. Credit will be granted for AAST498E, AMST418T, LGBT448E or WMST498C. Focuses on the concepts of race, class, gender and sexuality and their intersections. It exposes students to theories on sex, gender, sexuality, ethnicity and race as connected to Asian Pacific American identities communities.

0101	Jeannette Soon-Ludes	Seats (Total: 30)
	MW 3:30pm - 4:45pm	KEY 0120

AAST498I **Advanced Topics in Asian American Studies; Asian American Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Students will be introduced to leadership models and examples specific to Asian American & Pacific Islander communities throughout history and in current times. While the central objective of this course is to develop politically engaged and historically informed leaders and community members for the AAPI campus community, this course is open to anyone who is interested in social justice and learning more about student organizing around identity.

0101	Kristina Mascarenas, Jude Paul Dizon	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	HBK 0115

AAST498K **Advanced Topics in Asian American Studies; Border Crossings: People, Power, and Politics in Transnational Perspectives**

Credits: 3 Grading Method: Regular

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Prerequisite: At least three credit hours of prior coursework in AMST. Also offered as IMMR419F. Credit will be granted for AMST498A or IMMR419F.

0101	Jan Padios	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	SQH 1119

AAST498Y **Advanced Topics in Asian American Studies; The Multiracial Experience in the US**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Also offered as AMST418W. Credit granted for AAST498Y or AMST418W. Focuses on multiracial ("mixed race") identity and how the experiences of multiracial people contribute to our broader understanding of racial identity and formation. Course draws on literature and research produced by and about multiracial people. In addition, students will access the topic through comment boards, live chat sessions, podcasts, and multimedia. Readings and other course materials have been selected to challenge and grow students' understandings of race and mixed race.

0101	Lawrence-Minh Davis	Seats (Total: 35)
	M 2:00pm - 4:40pm	HBK 0108

AGNR Agriculture and Natural Resources Fall 2015

AGNR200 **AGNR 2+2 Program Extended Orientation Seminar**

(Perm req) Credits: 1 Grading Method: Regular

Prerequisite: Must be a first semester international student enrolled in the AGNR 2+2 Program. Restriction: Must be a first year international student enrolled in the College of Agriculture and Natural Resources 2+2 Program. Additional information: It is strongly recommended that AGNR 2+2 students take AGNR 200 during the first semester at the University. One class meeting per week. This courses is initiated by International Programs and will be coordinated in conjunction with the College of AGNR.

Introduces AGNR 2+2 students to University and "American" life. Assists with their successful transition to the College and Agriculture and Natural Resources and the University of Maryland. Helps students to understand their place in AGNR at to learn about the resources available to them.

0101	Cuiyin Wu	Seats (Total: 25)
	Tu 5:00pm - 6:50pm	SYM 0209

AGNR270 **Technology Training Seminar**

(Perm req)

Credits: 2-3 Grading Method: Regular

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-College of Agriculture & Natural Resources. Also offered as: BSCI279. Credit only granted for: AGNR270 or BSCI279.

A hands-on training seminar about pedagogical applications of information technology and mastery of several technical skills. Special emphasis is placed on gainfully understanding technological issues such as copyright and intellectual property, accessibility, and usability.

0101	Deborah Mateik	Seats (Total: 5)
	F 10:00am - 12:30pm	MMH 1304

AGNR301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: PUAF301. Credit only granted for: AGNR301 or PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Robert Sprinkle	Seats (Total: 145)
	TuTh 12:30pm - 1:45pm	JMZ 0220

AGNR388 **Honors Thesis Research**

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0101	Leon Slaughter	Seats (Total: 5)
	Contact instructor or department for details.	

AGNR499 **Special Problems; Special Problems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0102	Evelyn Cooper	Seats (Total: 1)
	Contact instructor or department for details.	

AMSC Applied Mathematics & Scientific Computation — Fall 2015

AMSC460 **Computational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131). Also offered as: CMSC460. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Tobias von Petersdorff	Seats (Total: 28)
	MWF 12:00pm - 12:50pm	MTH B0429
0201	Gil Ariel	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	MTH 0409

AMSC466 **Introduction to Numerical Analysis I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131). Also offered as: CMSC466. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Pierre-Emmanuel Jabin	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	SPH 0302

AMSC498A **Selected Topics in Applied Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC612 **Numerical Methods in Partial Differential Equations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed one graduate level course in partial differential equations OR one theoretical graduate level course in an applied mathematics field; or permission of instructor.

Finite difference methods for elliptic, parabolic, and hyperbolic partial differential equations. Additional topics such as spectral methods, variational methods for elliptic problems, stability theory for hyperbolic initial-boundary value problems, and solution methods for conservation laws.

0101	Eitan Tadmor	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSI 4122

AMSC660 **Scientific Computing I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear integration, interpolation); and permission of instructor). Also offered as: CMSC660. Credit only granted for: AMSC660 or CMSC660.

Monte Carlo simulation, numerical linear algebra, nonlinear systems and continuation method, optimization, ordinary differential equations. Fundamental techniques in scientific computation with an introduction to the theory and software of each topic.

0101	Maria Cameron	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	MTH B0421

AMSC663 **Advanced Scientific Computing I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CMSC660 or AMSC660; and (CMSC661 or AMSC661). Restriction: Permission of instructor. Also offered as: CMSC663. Credit only granted for: AMSC663 or CMSC663.

In the sequence AMSC663, AMSC664 students work on a year-long individual project to develop software for a scientific task in a high performance computing environment. Lectures will be given on available computational environments, code development, implementation of parallel algorithms.

0101	Radu Balan	Seats (Total: 22)
	TuTh 9:30am - 10:45am	CSI 4122

AMSC666 **Numerical Analysis I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: CMSC466 or AMSC466; and MATH410. Also offered as: CMSC666. Credit only granted for: AMSC666 or CMSC666.

Interpolation and approximation, numerical integration, solution algorithms for nonlinear systems of equations, numerical optimization.

Click here for more course information.

0101	Tobias von Petersdorff	Seats (Total: 22)
	MWF 1:00pm - 1:50pm	ITV 1111

AMSC670 **Ordinary Differential Equations I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH405. And MATH410; or students who have taken courses with comparable content may contact the department. Also offered as: MATH670. Credit only granted for: AMSC670 or MATH670.

Existence and uniqueness, linear systems usually with Floquet theory for periodic systems, linearization and stability, planar systems usually with Poincare-Bendixson theorem.

0101	Giovanni Forni	Seats (Total: 17)
	TuTh 9:30am - 10:45am	MTH B0431

AMSC673 **Partial Differential Equations I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Also offered as: MATH673. Credit only granted for: AMSC673 or MATH673.

Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.

Offered fall only. Also offered as MATH673.

0101	Ricardo Nochetto	Seats (Total: 22)
	TuTh 5:00pm - 6:15pm	MTH 1311

AMSC689 **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC760 **Applied Statistics Practicum**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed one year of graduate study in Applied Statistics. Restriction: Must have project proposal approved by SAC coordinator.

A semester long applied applied statistical project (a minimum 10 hours per week or 120 hours in total), in an internship of collaborative research-laboratory setting working on a substantive applied quantitative project with significant statistical content.

0101	Konstantina Trivisa	Seats (Total: 22)
	Contact instructor or department for details.	

AMSC762 **Data Analysis Project**

(Perm req)

Credits: 1 Grading Method: Regular

This course cannot be used to meet any of the Applied Statistics Area's seminar requirements. Offered yearly, required of and limited to MS non-thesis and doctoral students in Applied Statistics Area, for whom the resulting projects serve as a Qualifying Exam component. After 5-6 lectures or presentations on components of successful data analyses and write-ups, 3-4 sessions will discuss previous student project submissions. The culminating project, to be completed in a two week period between semesters, is an analysis and written report of one of three project choices made available each year to represent a spectrum of realistic applied statistical problems.

0101	Instructor: TBA	Seats (Total: 25)
	Contact instructor or department for details.	

AMSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC808A **Advanced Topics in Applied Mathematics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

AMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST American Studies Fall 2015

AMST101 **Introduction American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

0101	Ashley Minner MWF 9:00am - 9:50am	Seats (Total: 23) SQH 1111
0201	Patricia Akinbola MWF 1:00pm - 1:50pm	Seats (Total: 23) SQH 1111
0301	Shoji Sanders TuTh 8:00am - 9:15am	Seats (Total: 23) SQH 1111

0401	Ashley Hufnagel TuTh 12:30pm - 1:45pm	Seats (Total: 23) SQH 1111	
FC01	Kalima Young MW 4:30pm - 5:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 20) SQH 1111	
FCH1	Kalima Young F 10:00am - 11:15am Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0124 ONLINE	Discussion

AMST202 **Cultures of Everyday Life in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Examine the structures and patterns of everyday life in the U.S., utilizing methods such as ethnography, oral history, survey research, and textual, visual, and material cultural analysis.

0101	Tony Perry MWF 10:00am - 10:50am	Seats (Total: 25) SQH 1121	

AMST203 **Popular Culture in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

FCH1	Tatiana Benjamin F 1:00pm - 2:15pm Class time/details on ELMs *Restricted to students in Freshman Connection.*	Seats (Total: 20) ASY 3203 ONLINE	Discussion
FCH2	Tatiana Benjamin F 11:30am - 12:45pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0120 ONLINE	Discussion

AMST205 **Material Aspects of American Life**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HA	General Education: DSHU, DVUP

Historical survey of American material culture. Ways of describing and interpreting accumulated material evidence (e.g., buildings, town plans) introduced by stressing relationship between artifact and culture.

0101	Jennie Chaplin TuTh 9:30am - 10:45am	Seats (Total: 25) SQH 1123	
FCH1	Jung Kim F 11:30am - 12:45pm Class time/details on ELMs *Restricted to students in Freshman Connection.*	Seats (Total: 20) KEY 0124 ONLINE	Discussion
FCH2	Jung Kim F 1:00pm - 2:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0116 ONLINE	Discussion

AMST260 **American Culture in the Information Age**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, SCIS

Credit only granted for: AMST260 or AMST298I. Formerly: AMST298I.

Examines the ways in which content and form of public information interact with the culture, families & individuals.

0101	Asim Ali MW 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 SQH 1103	Discussion
0102	Asim Ali MW 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 SQH 1103	Discussion
0103	Asim Ali MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 SQH 1101	Discussion

0104	Asim Ali	Seats (Total: 20)	
	MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	SQH 1120 SQH 1103	Discussion

AMST298C **Introduction to Asian American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail CORE: SB, D

Also offered as AAST200. Credit granted for AAST200 or AMST298C.

0101	Janelle Wong	Seats (Total: 70)
	MW 2:00pm - 3:15pm	LEF 2166

AMST298Q **Selected Topics in American Studies; U.S. Latina/o Literature and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Also offered as ENGL235. Credit granted for ENGL235 or AMST298Q.

0101	Sharada Balachandran Orihuela	Seats (Total: 30)
	MW 5:00pm - 6:15pm	TWS 0205

AMST298Z **Selected Topics in American Studies; Immigration and Ethnicity in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.

Also offered as AAST222 and IMMR219A. Credit only granted for AAST222, AMST298Z, HIST219L, HIST222, or IMMR219A. The history of immigration and the development of diverse populations in the United States are examined. Topics include related political controversies, the social experiences of immigrants, ethnicity, generations, migration, inter-group relations, race and diversity in American culture.

0101	Jeannette Soon-Ludes	Seats (Total: 40)
	M 5:00pm - 7:30pm	SQH 1121

AMST328J **Perspectives on Identity and Culture; Filipino American History and Biography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered ad AAST398D. Credit granted for AAST398D or AMST328J. Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.

0101	Gemirald Daus	Seats (Total: 35)
	Tu 5:00pm - 7:45pm	ASY 3207

AMST328O **Perspectives on Identity and Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398A. Credit only given for AMST328O or AAST398A. The historical and contemporary experiences of Vietnamese Americans. Topics include war and refugee experiences, memory and memorialization, the second generation, and issues of identity in relation to race, ethnicity, gender, sexuality, and religion.

0101	Thu Khuc	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	JMP 1202

AMST328V **Perspectives on Identity and Culture; Growing Up Asian American**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398E.Credit granted for AAST398E or AMST328V. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and

0101	Thu Khuc	Seats (Total: 38)
	TuTh 5:00pm - 6:15pm	JMP 1202

AMST340 **Introduction to History, Theories and Methods in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed AMST201; and 2 courses in AMST. Restriction: Must be in American Studies program; and sophomore standing or higher.

Introduction to the process of interdisciplinary research, including research literatures, questions, first-hand sources and library and analytic methods in American Studies. Each student will craft a prospectus for original research.

0101	Robert Chester	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	SQH 2113

AMST386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-American Studies department; and junior standing or higher.

0601	Jo Paoletti	Seats (Total: 10)
	Contact instructor or department for details.	

AMST388 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular

Individual research, thesis and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

AMST398 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

Contact department for information to register for this course.

AMST418A **Cultural Themes in America; African-American Visual and Material Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Cheryl LaRoche W 4:00pm - 6:40pm	Seats (Total: 25) HBK 0123

AMST418H **Cultural Themes in America; Cultural Themes in America-Honors**

(Perm req)

Credits: 3 Grading Method: Regular

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Prerequisite: At least three credit hours of prior coursework in AMST.

Contact department for information to register for this course.

AMST418K **Cultural Themes in America; Film and the American Landscape**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Susan Pramschufer TuTh 9:30am - 10:45am	Seats (Total: 35) HBK 0302J

AMST418T **Cultural Themes in America; Asian American Sexualities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Also offered as AAST498E, LGBT448E and WMST498C. Credit will be granted for AAST498E, AMST418T, LGBT448E or WMST498C.

0101	Jeannette Soon-Ludes MW 3:30pm - 4:45pm	Seats (Total: 30) KEY 0120

AMST418W **Cultural Themes in America; The Multiracial Experience in the US**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Also offered as AMST418W. Credit granted for AAST498Y or AMST418W. Focuses on multiracial ("mixed race") identity and how the experiences of multiracial people contribute to our broader understanding of racial identity and formation. Course draws on literature and research produced by and about multiracial people. In addition, students will access the topic through comment boards, live chat sessions, podcasts, and multimedia. Readings and other course materials have been selected to challenge and grow students' understandings of race and mixed race.

0101	Lawrence-Minh Davis	Seats (Total: 35)
	M 2:00pm - 4:40pm	HBK 0108

AMST428F **American Cultural Eras; Myth and Memory: 1985**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Investigation of a decade, period, or generation as a case study in significant social change within an American context. Case studies include "Antebellum America, 1840-1860" and "American culture in the Great Depression."

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Jo Paoletti	Seats (Total: 26)
	TuTh 12:30pm - 1:45pm	MMH 1304

AMST429B **Perspectives on Popular Culture; Strategies for Social Activism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in popular culture studies, including the examination of particular genres, themes, and issues.

Permission required. This is the second semester of the College of Arts and Humanities Social Innovation Scholars Program. Students must have completed AMST429J/ARHU439J in Spring 2014 to enroll.

0101	Sheri Parks	Seats (Total: 15)
	F 2:00pm - 5:00pm	TWS 0221

AMST429R **Perspectives on Popular Culture; Crime and Punishment in African American Expressive Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in popular culture studies, including the examination of particular genres, themes, and issues.

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	La Marr Bruce	Seats (Total: 30)
	W 3:00pm - 5:40pm	JMZ 2122

AMST450 **Seminar in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: AMST201 and AMST340; and 1 course in AMST. Restriction: Senior standing; and must be in American Studies program.

Developments in theories and methods of American Studies scholarship, with emphasis upon interaction between the humanities and the social sciences in the process of cultural analysis and evaluation.

0101	La Marr Bruce	Seats (Total: 20)
	MW 10:00am - 11:15am	SQH 2113

AMST498A **Special Topics in American Studies; Border Crossings: People, Power, and Politics in Transnational Perspective**

Credits: 3 Grading Method: Regular

Topics of special interest.

Prerequisite: At least three credit hours of prior coursework in AMST. Also offered as IMMR419F. Credit will be granted for AMST498A or IMMR419F.

0101	Jan Padios	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	SQH 1119

AMST498G **Special Topics in American Studies; Latinas/os on the Silver Screen**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as USLT498A. Credit granted for USLT498A or AMST498G. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Robert Chester	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1107

AMST498L **Special Topics in American Studies; Native Americans and U.S. Cinema**

Credits: 3 Grading Method: Regular

Topics of special interest.

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Robert Chester	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1107

AMST498N **Special Topics in American Studies; Citizens, Immigrants, and Refugees**

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as USLT498I and IMMR419D. Credit granted for AMST498N or USLT498I or IMMR419D. Prerequisite: At least three credit hours of prior coursework in AMST

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1103

AMST499D **Independent Studies; Maryland Social Entrepreneur Corps II**

Credits: 1 Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

Also offered as BMGT499G. Credit granted for BMGT499G or AMST499D. Restricted to students participating in the Maryland Social Entrepreneur Corps program. Participating students will be automatically enrolled in the course by Education Abroad. For more information about the program, please contact Jennifer Precht in Education Abroad (jprecht@umd.edu).

Contact department for information to register for this course.

AMST601 **Introductory Theories and History in American Studies**

Credits: 3 Grading Method: Regular

Restriction: Must not be a Graduate Advanced Special Student.

Explores the formative literature, theories, research approaches, and history of American Studies.

0101	Psyche Williams-Forson M 4:00pm - 6:40pm	Seats (Total: 15) SQH 2113

AMST628G **Seminar in American Studies; Myth and Memory: 1985**

Credits: 3 Grading Method: Regular, Audit

0101	Jo Paoletti TuTh 12:30pm - 1:45pm	Seats (Total: 4) MMH 1304

AMST628Q **Seminar in American Studies; Cultural Politics of Work and Labor**

Credits: 3 Grading Method: Regular, Audit

0101	Jan Padios W 4:00pm - 6:40pm	Seats (Total: 15) SQH 2113

AMST629K **Seminar in American Studies; Gentrification and the Politics of Displacement**

Credits: 3 Grading Method: Regular, Audit

0101	Nancy Mirabal Tu 4:00pm - 6:40pm	Seats (Total: 15) SQH 2113

AMST698 **Directed Readings in American Studies**

(Perm req)

Credits: 3 Grading Method: Regular

This course is designed to provide students with the opportunity to pursue independent, interdisciplinary research and reading in specific aspects of American culture under the supervision of a faculty member.

Contact department for information to register for this course.

AMST798 **Non-Thesis Research**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST856 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: AMST655. Also offered as: ANTH856, HIST810. Credit only granted for: AMST856, HIST810, or ANTH856.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Judith Freidenberg	Seats (Total: 15)
	Tu 1:00pm - 3:45pm	WDS 1102

AMST878A **American Studies Pedagogy Mentoring; Mentoring for First Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Christina Hanhardt	Seats (Total: 8)
	Contact instructor or department for details.	

AMST878B **American Studies Pedagogy Mentoring; Mentoring for Second Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Christina Hanhardt	Seats (Total: 5)
	Contact instructor or department for details.	

AMST878C **American Studies Pedagogy Mentoring; Mentoring for Third Year Teaching in American Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular

This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.

Prerequisite: permission of department and must be a current AMST teaching assistant.

0101	Christina Hanhardt	Seats (Total: 5)
	Contact instructor or department for details.	

AMST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANSC Animal Science Fall 2015

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

ANSC101 **Principles of Animal Science**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A comprehensive overview of the application of biology in the care and use of animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. The role of science in modern food production using animals will be emphasized.

0101	Kasey Moyes	Seats (Total: 225)
	MW 1:00pm - 1:50pm	HJP 0226

ANSC103 **Principles of Animal Science Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC101. Restriction: Must be in one of the following programs (Environmental Sci & Pol-Environment & Agriculture; Agricultural and Veterinary Medicine; Agricultural Science and Technology) ; or must be in a major within the AGNR-Animal & Avian Sciences department; or permission of department required for students in other College of AGNR programs.

Laboratory focusing on the application of biology in the care and use o animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. Labs will include live animals. Offered in fall semester only.

Students must pay a $50.00 laboratory materials fee.

0101	Robert Peters M 3:00pm - 5:00pm	Seats (Total: 22) ANS 1144	Lab
0201	Robert Peters Tu 2:00pm - 3:50pm	Seats (Total: 22) ANS 1144	Lab
0301	Robert Peters F 10:00am - 12:00pm	Seats (Total: 22) ANS 1144	Lab
0401	Robert Peters Th 2:00pm - 4:00pm	Seats (Total: 22) ANS 1144	Lab
0501	Robert Peters W 3:00pm - 5:00pm	Seats (Total: 22) ANS 1144	Lab
0601	Robert Peters M 10:00am - 12:00pm	Seats (Total: 22) ANS 1144	Lab

ANSC211 **Anatomy of Domestic Animals**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101, ANSC103, and BSCI105. Restriction: Must be in one of the following programs (Environmental Sci&Pol-Wildlife Resources & Cons; Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine).

Covering the anatomy of major species of domestic animals. The lecture portion utilizes a systemic approach to provide a general knowledge of both gross and microscopic mammalian structure. Comparative differences between the major domestic species are covered in these lectures. A regional approach is taken to study the gross anatomy of major domestic species in the laboratory portion. Offered fall semester only.

Offered fall only. Students must pay a $50.00 laboratory materials fee.

0101	Angela Black MW 2:00pm - 2:50pm Tu 9:00am - 12:00pm	Seats (Total: 22) ANS 0408 ANS 0108	 Lab
0102	Angela Black MW 2:00pm - 2:50pm Tu 1:00pm - 4:00pm	Seats (Total: 22) ANS 0408 ANS 0108	 Lab
0103	Angela Black MW 2:00pm - 2:50pm Th 9:00am - 12:00pm	Seats (Total: 22) ANS 0408 ANS 0108	 Lab
0104	Angela Black MW 2:00pm - 2:50pm Th 1:00pm - 4:00pm	Seats (Total: 22) ANS 0408 ANS 0108	 Lab

ANSC225 **Love Me, Hate Me, Use Me, Save Me: Our Conflicting Views of Animals**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: IE	General Education: DSHS, SCIS

Examine the evolution of human-animal relationships and consider some of the major social an scientific debates that have arisen in the last century as a result of our rapidly changing and diverse views about animals.

0101	Sarah Balcom MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 20) ANS 0408 ANS 0412	 Discussion
0102	Sarah Balcom MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) ANS 0408 ANS 0408	 Discussion
0103	Sarah Balcom MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) ANS 0408 ANS 0412	 Discussion

ANSC227 **Eating with Eyes Wide Open**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

Students will investigate the tension that is created by trade-offs that, knowingly or not, are made by consumers relative to agricultural production methods and dietary choices. Course will inform students about their food supply so they can make informed decisions and practice intentional or informed eating.

0101	R Apter TuTh 9:30am - 10:20am M 1:00pm - 2:50pm	Seats (Total: 20) BPS 1243 ANS 1144	Lab
0102	R Apter TuTh 9:30am - 10:20am W 8:00am - 9:50am	Seats (Total: 20) BPS 1243 ANS 1144	Lab
0103	R Apter TuTh 9:30am - 10:20am W 1:00pm - 2:50pm	Seats (Total: 20) BPS 1243 ANS 1144	Lab

ANSC242 **Dairy Cattle Management**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103. Formerly: ANSC240 and ANSC241.

All aspects of dairy production, including nutrition, reproduction, mastitis control, milking management, farmstead facilities, financial management and forage production.

0101	Richard Erdman TuTh 11:00am - 12:15pm	Seats (Total: 35) ANS 0408	

ANSC252 **Introduction to the Diseases of Wildlife**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI105; or permission of AGNR-Animal & Avian Sciences department; or students who have taken courses with comparable content may contact the department.

The principal diseases of North American wildlife will be briefly considered. For each disease, specific attention will be given to the following: signs evidenced by the affected animal or bird, causative agent, means of transmission and effects of the disease on the population of the species involved.

Offered fall only.

0101	Cindy Driscoll	Seats (Total: 80)	
	M 4:00pm - 5:50pm	ANS 0408	
	M 6:00pm - 6:50pm	ANS 0408	Discussion

ANSC255 **Introduction to Aquaculture**

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: ANSC101 and ANSC103; or must have completed an introductory biology course.

Introduces the art and science of rearing aquatic animals and the essential principles of aquaculture. Students receive hands-on training in the methods required for successful husbandry and management of aquatic animals in their water environment.

0101	L Woods	Seats (Total: 20)
	TuTh 11:00am - 12:50pm	ANS 1144

ANSC270 **Animal Enterprise Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103; or permission of instructor.

General principles of enterprise organization, management, and operation as applicable to food, livestock, and companion animals. Enterprise planning and establishment, management of financial, human, and animal resources, and other related topics will be investigated.

0101	R Apter	Seats (Total: 40)
	MW 3:30pm - 4:45pm	ITV 1100

ANSC275 **Introduction to Veterinary Medical Science and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS, DSSP

Prerequisite: BSCI105.

The fundamentals of clinical veterinary medical practice and the research that supports it. Topics presented will include the histology, gross anatomy and physiology of the musculoskeletal, cardiovascular, respiratory, reproductive, digestive, renal and neurological systems as they relate to the description of specific disease states taught in this course. Additionally, examples of diseases caused by pathologic disturbances to these systems will be discussed, as well as the basic principles of preventative health care, diagnostic testing and pharmacologic intervention. Significant attention will be given to research in veterinary science and the practice of evidence-based medicine. This course is intended for any student interested in veterinary medicine, animal physiology, or medical science.

0101	Sarah Balcom MWF 9:00am - 9:50am	Seats (Total: 20) ANS 0412	

ANSC314 **Comparative Animal Nutrition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103; and (CHEM231 or CHEM104).

The fundamental role and implications of dietary preference, gastrointestinal physiology and nutrients in animal nutrition. Biochemical roles of nutrients in metabolism, digestion, absorption and assimilation as it relates to various life processes.

Offered fall only.

0101	Richard Kohn MWF 9:00am - 9:50am	Seats (Total: 88) ANS 0408	

ANSC330 **Equine Science**

Credits: 3 Grading Method: Regular

Prerequisite: ANSC232; or permission of instructor. Recommended: ANSC212 and ANSC211. Credit only granted for: ANSC230 or ANSC330. Formerly: ANSC230.

Scientific principles of horse behavior, anatomy, physiology, locomotion, nutrition, reproduction, growth, health and disease as applied to horses are emphasized.

Offered fall only. Students must pay a $50.00 laboratory materials fee.

0101	Amy Burk MW 1:00pm - 1:50pm F 1:00pm - 3:00pm	Seats (Total: 20) ANS 0402 ANS 1144	 Lab

ANSC390 **Animal Science Undergraduate Teaching Assistant Seminar**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Permission of instructor.

Seminar course for undergraduate teaching assistants within ANSC.

0101	Sarah Balcom	Seats (Total: 20)
	Contact instructor or department for details.	

ANSC398V **Seminar - Research; Veterinary Medicine, Options and Oppurtunities**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of current literature and research work in animal science.

This course introduces students to available career optiosn in veterinary medicine and the veterinary school admissions process. Issues relevant to the health and welfare of animals, educational requirements, salaries, necessary skills, and job outlook will be discussed.

0101	Nathaniel Tablante	Seats (Total: 20)
	W 1:00pm - 1:50pm	ANS 0408

ANSC399 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC437 **Animal Biotechnology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC327; or students who have taken courses with comparable content may contact the department.

Key concepts and current issues in animal biotechnology are covered. Current techniques and applications systems as well as social, ethical, and regulatory issues associated with biotechnology will be discussed.

0101	Carol Keefer	Seats (Total: 25)
	MWF 10:00am - 10:50am	ANS 0412

ANSC446 **Physiology of Mammalian Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC212 or BSCI440.

Anatomy and physiology of reproductive processes in domesticated and wild mammals.

0101	Bhanu Telugu	Seats (Total: 80)	
	TuTh 2:00pm - 3:15pm	ANS 0408	

ANSC447 **Physiology of Mammalian Reproduction Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC446.

Gross and micro-anatomy, artificial insemination, estrous cycle synchronization and invitro-fertilization procedures and analytical techniques useful in animal management and reproduction.

Students must pay a $50.00 laboratory materials fee.

0101	Bhanu Telugu	Seats (Total: 30)	
	F 12:00pm - 1:50pm	ANS 0108	Lab

ANSC455 **Applied Animal Behavior**

Credits: 3 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103; or BSCI106.

Principles of animal behavior applied to production systems in animal agriculture.

Offered fall only.

0101	R Apter	Seats (Total: 50)	
	MF 11:00am - 11:50am	ANS 0408	
	W 11:00am - 12:50pm	ANS 0408	Lab

ANSC489 **Current Topics in Animal Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Examination of current developments in the animal sciences.

Contact department for information to register for this course.

ANSC489C **Current Topics in Animal Science; Cognitive Ethology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examination of current developments in the animal sciences.

Prerequisites: Professional Writing The capacity of domestic animals to form mental concepts and/or constructs will be addressed. The goal of the course is to approach domestic animal cognition as having been formed as an adaptive trait while also more recently being influenced by domestication. Each student will participate in classroom group activity including leading discussions on selected assigned published articles. Additionally, each student will choose a topic related to animal cognitive abilities, e.g., object permanence, self-recognition, recognition of death of conspecifics, etc. A literature review will be completed by each student on their selected topic to include a summary presentation to the class with discussion.

0101	William Stricklin	Seats (Total: 8)
	TuTh 3:30pm - 4:45pm	ARC 1103

ANSC660 **Poultry Literature**

Credits: 1-4

Grading Method: Regular, Audit

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

Contact department for information to register for this course.

ANSC688C **Special Topics; Cognitive Ethology**

Credits: 1-4

Grading Method: Regular, Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

0101	William Stricklin	Seats (Total: 10)
	Contact instructor or department for details.	

ANSC688N **Special Topics; Membrane Traffic**

Credits: 3

Grading Method: Regular, Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

This course will discuss membrane traffic and the sorting and targeting of proteins and lipids.

0101	Liqing Yu	Seats (Total: 20)
	MW 3:00pm - 4:15pm	ANS 0412

ANSC688V **Special Topics; Introduction to University Teaching for Graduate Students**

Credits: 2 Grading Method: Regular, Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

Students are guided in animal sciences and related disciplines in the design and delivery of an undergraduate science course. Weekly discussions, activities, and peer assessments will center on course development strategies, current teaching methods, and relevant approaches for undergraduate student assessment. Students will create a course syllabus, instructional activities, and a student assessment.

0101	Sarah Balcom	Seats (Total: 14)
	W 2:00pm - 4:00pm	ANS 0402

ANSC698C **Seminar; Recent Advances in Animal and Avian Sciences**

Credits: 1 Grading Method: Regular, Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 25)
	Tu 3:30pm - 5:30pm	ANS 0408

ANSC698D **Seminar; Developing Presentation Skills**

Credits: 1 Grading Method: Regular, Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 12)	
	Tu 3:30pm - 5:30pm Th 3:30pm - 4:30pm	ANS 0408 ANS 0402	Discussion

ANSC699 **Special Problems in Animal Science**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

Contact department for information to register for this course.

ANSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ANTH Anthropology Fall 2015

ANTH221 **Introduction to Forensic Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Credit only granted for: ANTH298A or ANTH221. Formerly: ANTH298A.

Provides a brief history of forensic sciences, an introduction to some of the techniques used, and a demonstration of some of the applications of forensic sciences. A survey course designed to give the student some exposure to the kinds of scientific knowledge and techniques applied to the medico-legal investigation of death and other crimes.

FC01	Marilyn London	Seats (Total: 24)	
	TuTh 6:00pm - 7:15pm	WDS 1114	
	Restricted to students in Freshman Connection.		

ANTH222 **Introduction to Ecological and Evolutionary Anthropology**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: LL	General Education: DSNL, DVUP

Credit only granted for: ANTH220 or ANTH222.

An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.

0101	L Jen Shaffer TuTh 11:00am - 12:15pm M 8:00am - 10:00am	Seats (Total: 18) CSS 2324 WDS 0124C	 Lab
0102	L Jen Shaffer TuTh 11:00am - 12:15pm M 11:00am - 1:00pm	Seats (Total: 18) CSS 2324 WDS 0124C	 Lab
0103	L Jen Shaffer TuTh 11:00am - 12:15pm M 2:00pm - 4:00pm	Seats (Total: 18) CSS 2324 WDS 0124C	 Lab
0104	L Jen Shaffer TuTh 11:00am - 12:15pm W 8:00am - 10:00am	Seats (Total: 18) CSS 2324 WDS 0124C	 Lab
0105	L Jen Shaffer TuTh 11:00am - 12:15pm W 11:00am - 1:00pm	Seats (Total: 18) CSS 2324 WDS 0124C	 Lab
0106	L Jen Shaffer TuTh 11:00am - 12:15pm W 2:00pm - 4:00pm	Seats (Total: 18) CSS 2324 WDS 0124C	 Lab
FC01	Tanya Icaza TuTh 4:30pm - 5:45pm F 10:00am - 12:30pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 18) HBK 0103 WDS 0124C	 Lab

FC02	Tanya Icaza TuTh 4:30pm - 5:45pm F 12:30pm - 3:00pm	Seats (Total: 18) HBK 0103 WDS 0124C	 Lab
	Restricted to students in Freshmen Connenction.		

ANTH240 **Introduction to Archaeology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

0101	George Hambrecht TuTh 11:00am - 12:15pm	Seats (Total: 75) SQH 1120	
0201	Mark Leone MWF 11:00am - 11:50am	Seats (Total: 60) WDS 1114	
FC01	Stefan Woehlke TuTh 7:30pm - 8:45pm	Seats (Total: 29) SKN 0104	
	Restricted to students in Freshmen Connection.		

ANTH260 **Introduction to Sociocultural Anthropology and Linguistics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.

0101	Christina Getrich MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 KEY 0117	 Discussion
0102	Christina Getrich MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 KEY 0117	 Discussion
0103	Christina Getrich MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) SHM 2102 SKN 0104	 Discussion

0104	Christina Getrich MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) SHM 2102 KEY 0126	Discussion
0105	Christina Getrich MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 KEY 0126	Discussion
0106	Christina Getrich MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SHM 2102 WDS 1127	Discussion
FC01	Stanley Herman MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 30) WDS 1114	

ANTH263 **Sexuality and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

FC01	Charneka Lane TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) TYD 1118	

ANTH264 **Anthropology and Immigration**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

An examination of the phenomenon of international migration, or immigration. Students develop awareness of how immigration has been framed in the general public and examined by social science disciplines, most prominently anthropology. Examination of case studies of different immigrant groups in distinct geographic contexts will illuminate the varied incorporation experiences of immigrants into U.S. society.

Also offered as IMMR219C. Credit granted for ANTH264 or IMMR219C.

0101	Christina Getrich MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) TYD 2106 EDU 2119	Discussion
0102	Christina Getrich MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TYD 2106 EDU 2119	Discussion
0103	Christina Getrich MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) TYD 2106 KNI 1103	Discussion

ANTH265 **Anthropology of Global Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP, SCIS

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

FCH1	Megan Springate Th 7:30pm - 8:45pm Class time/details on ELMs	Seats (Total: 35) KEY 0126 ONLINE	Discussion
	Restricted to students in Freshman Connection. Class time/details on ELMS Online Discussion		

ANTH266 **Changing Climate, Changing Cultures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

FC01	Katherine Johnson MW 6:00pm - 7:15pm	Seats (Total: 24) SQH 1107	
	Restricted to students in Freshman Connection.		

ANTH298V **Special Topics in Anthropology; Materiality of Diaspora: Invented Identities and Transformed World Views**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Anthropological perspectives on selected topics of broad general interest.

0101	Stephen Brighton TuTh 3:30pm - 4:45pm	Seats (Total: 15) WDS 1114

ANTH305 **Archaeological Methods and Practice**

Credits: 3 | Grading Method: Regular

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ARTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	Jorge Bravo MW 11:00am - 12:15pm	Seats (Total: 20) LEF 1201

ANTH322 **Method and Theory in Ecological Anthropology**

Credits: 3 | Grading Method: Regular

Prerequisite: ANTH220 or ANTH222. Restriction: Must be in a major within the BSOS-Anthropology department. Credit only granted for: ANTH320, ANTH322, ANTH425, or ANTH625.

A theoretical consideration of ecological anthropology, focusing on issues related to cooperation, the management of common property, resilience, and sustainability. Explores the methods of sociocultural anthropology, including ethnology, evolutionary game theory and agent-based modeling; and natural-science approaches including behavioral and systems ecology.

0101	Michael Campana Tu 2:30pm - 5:00pm	Seats (Total: 20) WDS 0124C

ANTH358A **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Archaeology**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358B **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Bio-Anthropology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358C **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Cultural Anthropology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH360 **Method and Theory in Sociocultural Anthropology**

Credits: 3 Grading Method: Regular

Prerequisite: ANTH260. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.

Theoretical approaches and research methods in sociocultural anthropology. Emphasis on current debates, new directions, and their historical antecedents.

Limited to Anthropology majors.

0101	Kathryn Lafrenz Samuels	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	WDS 1114

ANTH380 **Culture and Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contemporary discourse analysis and pragmatics applied to ethnographic research problems with particular attention to roots in recent linguistic anthropological work in ethnographic semantics and ethnography of speaking.

This section is limited to Shady Grove COMM majors or by permission of the UMCP Anthropology department.

SG91	Jacqueline Messing	Seats (Total: 35)
	W 2:00pm - 4:30pm	Location: TBA

ANTH386 **Experiential Learning**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail

Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.

Contact department for information to register for this course.

ANTH398A **Independent Study; Research Problems**

(Perm req)

Credits: 1-3

Grading Method: Regular

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398C **Independent Study; The Mediterranean World**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398E **Independent Study; Bodies and Burials**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398G **Independent Study; Ethnicity, Race and Nationality in Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398H **Independent Study; Social Anthropology of Britain (Honors)**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398I **Independent Study; Great Kingdoms of Ancient Near East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398J **Independent Study; Archaeology Practicum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398K **Independent Study; Archaeology of Roman Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398L **Independent Study; Social Anthropology of Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398N **Independent Study; Career Development for Anthropology Majors**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

0101	Erik Hanson	Seats (Total: 15)
	M 11:00am - 11:50am	KEY 0119

ANTH437 **Modern Material Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Presents the students with conceptual tools for thinking about and studying anything created or modified by human activities from 1750 to the present. Emphasizes the skills for doing original research, delivering well-organized and succinct oral presentations, and preparing a professional report.

0101	Michael Schiffer	Seats (Total: 10)
	W 2:00pm - 4:45pm	LEF 1221

ANTH448F **Special Topics in Archaeology; Environmental Archaeology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Advanced topics in archaeological research, corresponding to new theoretical developments, faculty research interests, or specialties of visiting scholars. Prerequisites may vary with course topic; check with the department for requirements.

0101	George Hambrecht	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	HBK 0108

ANTH448Q **Special Topics in Archaeology; Archaeology of Modern Cities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced topics in archaeological research, corresponding to new theoretical developments, faculty research interests, or specialties of visiting scholars. Prerequisites may vary with course topic; check with the department for requirements.

0101	Stephen Brighton	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH468D **Special Topics in Cultural Anthropology; Amazon Through Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Advanced courses in varying specialty areas of cultural anthropology that respond to new theoretical developments, faculty research interests, or specialties of visiting scholars.

Also offered as LASC448Q.

0101	Janet Chernela	Seats (Total: 31)
	M 6:00pm - 8:45pm	WDS 0104

ANTH468L **Special Topics in Cultural Anthropology; Conservation and Indigenous People in South America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced courses in varying specialty areas of cultural anthropology that respond to new theoretical developments, faculty research interests, or specialties of visiting scholars.

Also offered as LASC448L. Credit granted for ANTH468L or LASC448L.

0101	Janet Chernela M 2:00pm - 4:45pm	Seats (Total: 30) ASY 3215

ANTH468O **Special Topics in Cultural Anthropology; Research Environment and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Advanced courses in varying specialty areas of cultural anthropology that respond to new theoretical developments, faculty research interests, or specialties of visiting scholars.

Junior standing or above.

0101	L Jen Shaffer Th 2:00pm - 4:45pm	Seats (Total: 10) ARC 1125

ANTH468W **Special Topics in Cultural Anthropology; Performativity of Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced courses in varying specialty areas of cultural anthropology that respond to new theoretical developments, faculty research interests, or specialties of visiting scholars.

Also offered as THET408W. Credit granted for THET408W or ANTH468W.

0101	Laurie Frederik Meer TuTh 11:00am - 12:15pm	Seats (Total: 20) PAC 1809

ANTH476 **Senior Research**

(Perm req)

Credits: 3-4 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Anthropology program. Credit only granted for: ANTH476 or ANTH486.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of a senior thesis in anthropology.

Contact department for information to register for this course.

ANTH477 **Senior Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH476. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program. Credit only granted for: ANTH477 or ANTH487.

Capstone course in which students write a senior thesis on independent research into a current problem in anthropology. The thesis is defined before a committee of faculty.

Contact department for information to register for this course.

ANTH486 **Honors Research**

(Perm req)

Credits: 3-4 Grading Method: Regular

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH486 or ANTH476.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of an honors thesis in anthropology.

Contact department for information to register for this course.

ANTH487 **Honors Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular

Prerequisite: ANTH486. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH487 or ANTH477.

Capstone course in which students write a thesis on the results of independent research into a current problem in anthropology.

Contact department for information to register for this course.

ANTH491 **Applied Urban Ethnography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: ANTH260. Also offered as: ANTH617. Credit only granted for: ANTH468B, ANTH491, or ANTH617. Formerly: ANTH468B.

The focus is on the use of applied ethnographic field methods in community assessment research in urban settings. Also, it will extend beyond most ethnographic training in which the emphasis is on being there, and relying predominantly on the classical ethnographic methods of recursive observations, participant observations, and a variety of approaches to interviewing.

0101	Tony Whitehead	Seats (Total: 20)
	Th 2:00pm - 4:45pm	TYD 2108

ANTH498C **Advanced Field Training in Ethnography; Service Learning for Applied Urban Ethnography**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Experience in field research utilizing a variety of ethnographic method of inquiry.

Requires 4 hours/week of off-campus service learning. Can only be taken concurrently with ANTH491 or ANTH617.

0101	Tony Whitehead	Seats (Total: 1)
	Contact instructor or department for details.	

ANTH601 **Applied Anthropology**

Credits: 3 Grading Method: Regular

An overview of the history and current practices of applied anthropology. This includes relationships between applied anthropology and other major subfields of the profession; the interdisciplinary and public context of applied anthropology; and problems of significance, utility, and ethics associated with applied anthropology.

Offered fall only. For ANTH majors only.

0101	Judith Freidenberg	Seats (Total: 20)
	M 5:00pm - 7:40pm	WDS 1131

ANTH606 **Qualitative Methods in Applied Anthropology**

Credits: 3 Grading Method: Regular, Audit

An introduction to the use of ethnography and qualitative methods in applied and policy contexts. Qualitative methods discussed include informal and systematic approaches. Students undertake fieldwork in local settings to practice the qualitative methods and to develop analysis and report writing skills.

Offered fall only. For Anth majors only.

0101	Mary Butler	Seats (Total: 25)
	Th 5:00pm - 7:40pm	WDS 1130

ANTH617 **Applied Urban Ethnography: Community Assessment Research**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ANTH491. Credit only granted for: ANTH468B, ANTH617, or ANTH688B.

Explores the use of ethnographic research methods in carrying out community assessment research to inform the design, implementation, and evaluation of culturally and community appropriate community-based initiatives. This course usually has a fieldwork component in a local urban neighborhood.

0101	Tony Whitehead	Seats (Total: 10)
	Th 2:00pm - 4:45pm	TYD 2108

ANTH637 **Modern Material Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Presents the students with conceptual tools for thinking about and studying anything created or modified by human activities from 1750 to the present. Emphasizes the skills for doing original research, delivering well-organized and succinct oral presentations, and preparing a professional report.

0101	Michael Schiffer	Seats (Total: 10)
	W 2:00pm - 4:45pm	LEF 1221

ANTH669D **Advanced Developments in Cultural Anthropology; Critical Heritage**

Credits: 3 Grading Method: Regular, Audit

Graduate cultural anthropology courses on varying topics derived from new interests of the faculty or the specialties of visiting scholars.

Contact department for information to register for this course.

ANTH688A **Current Developments in Anthropology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

Contact department for information to register for this course.

ANTH688F **Current Developments in Anthropology; Environmental Archaeology**

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

0101	George Hambrecht TuTh 2:00pm - 3:15pm	Seats (Total: 7) HBK 0108

ANTH688Z **Current Developments in Anthropology; Materiality of Diaspora: Invented Identities and Transformed World Views**

Credits: 3 Grading Method: Regular, Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

0101	Stephen Brighton TuTh 3:30pm - 4:45pm	Seats (Total: 5) WDS 1114

ANTH689A **Special Problems in Anthropology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANTH689O **Special Problems in Anthropology; Researching Environment and Culture**

Credits: 3 Grading Method: Regular, Sat-Fail

0101	L Jen Shaffer Th 2:00pm - 4:45pm	Seats (Total: 5) ARC 1125

ANTH689Q **Special Problems in Anthropology; Modern World Archaeology of Cities**

Credits: 3 Grading Method: Regular, Sat-Fail

0101	Stephen Brighton	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH701 **Anthropology Internship Preparation**

Credits: 3 Grading Method: Regular, Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

Contact department for information to register for this course.

ANTH712 **Anthropology Internship Analysis**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ANTH789.

The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.

Contact department for information to register for this course.

ANTH760 **Development of Social/Cultural Theory**

Credits: 3 Grading Method: Regular, Audit

A broad perspective of the history of social cultural theory in anthropology and the critical skills needed for understanding the subdiscipline is provided. An overview of the history of theorizing about society and culture will help outline the past, present, and future of anthropology and its relations with other scientific and humanistic disciplines.

For Anth majors only.

0101	Michael Paolisso	Seats (Total: 25)
	Tu 5:00pm - 7:40pm	WDS 0104

ANTH788 **Internship Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

This course augments ANTH 789 and is graded in conjunction with it.

Contact department for information to register for this course.

ANTH789 **Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Individual instruction course supervised by a department faculty member.

Contact department for information to register for this course.

ANTH856 **Museum Research Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HIST610. Also offered as: HIST810, AMST856. Credit only granted for: ANTH856, AMST856, or HIST810.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Judith Freidenberg	Seats (Total: 15)
	Tu 1:00pm - 3:45pm	WDS 1102

ANTH857 **Museum Scholarship Practicum**

Credits: 3-6 Grading Method: Regular

Prerequisite: HIST810. Restriction: Permission of Museum Scholarship Program required. Also offered as: HIST811, AMST857. Credit only granted for: ANTH857, AMST857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

1005	Instructor: TBA	Seats (Total: 10)
	Tu 1:00pm - 3:45pm	WDS 1102

ANTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANTH899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC Atmospheric and Oceanic Science Fall 2015

AOSC123 Causes and Implications of Global Change

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS

Also offered as: GEOL123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123. Formerly: METO123.

Responsible policy and decision making on issues related to the global environment requires understanding of the basic scientific issues, relationships between the geophysical and biological sciences, the impacts on regional and global endeavors, and the political manner in which humans respond. This course embodies an integrated introduction to the broad scientific and social aspects of the global change problem.

0101	Derrick Lampkin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 32) JMP 2202 CSS 2416	Discussion
AM01	Derrick Lampkin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 5) JMP 2202 CSS 2416	Discussion

AOSC200 Weather and Climate

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNL (if taken with AOSC201), DSNS, SCIS

Prerequisite: MATH110 or MATH115. Recommended: Concurrent enrollment in AOSC201. Formerly: METO200.

Broad survey of the state of knowledge and problems of atmospheric science. Origin and structure of the atmosphere, meteorological observations, weather maps, forecasting, satellites, energetics, wind, general circulation, storms, severe weather, climate change, air pollution.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Timothy Canty TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 30) CSS 2324 CSS 2416	Discussion

0102	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 EGR 0135	Discussion
0103	Timothy Canty TuTh 12:30pm - 1:45pm W 3:00pm - 3:50pm	Seats (Total: 30) CSS 2324 JMZ 0208	Discussion
0104	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 EDU 2119	Discussion
0201	Timothy Canty TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 CSS 2416	Discussion
0202	Timothy Canty TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 30) CSS 2324 JMZ 2207	Discussion
0203	Timothy Canty TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 30) CSS 2324 CSS 2416	Discussion
0204	Timothy Canty TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 CSS 2416	Discussion

AOSC201 **Weather and Climate Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Corequisite: AOSC200. Formerly: METO201.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, use of the Internet, forecasting practice and climate modeling.

Students must pay a $50.00 laboratory materials fee.

0101	Antonio Larios Tu 3:30pm - 5:30pm	Seats (Total: 20) CSS 3426	Lab

0102	Sarah Benish W 10:00am - 12:00pm	Seats (Total: 20) CSS 3426	Lab
0103	Sarah Benish F 10:00am - 12:00pm	Seats (Total: 20) CSS 3426	Lab
0104	Ashley Wheeler W 4:00pm - 6:00pm	Seats (Total: 20) CSS 3426	Lab
0105	Katherine Junghenn M 2:00pm - 4:00pm	Seats (Total: 20) CSS 3426	Lab
0106	Katherine Junghenn Tu 10:00am - 12:00pm	Seats (Total: 20) CSS 3426	Lab
0107	Antonio Larios M 10:00am - 12:00pm	Seats (Total: 20) CSS 3426	Lab
0108	Phillip Stratton F 2:00pm - 4:00pm	Seats (Total: 20) CSS 3426	Lab

AOSC375 **Introduction to the Blue Ocean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: GEOL375. Credit only granted for: GEOL375 or METO375.

Oceans are an important component of the Earth System and this course builds towards Earth System Science education. Oceanography is an intrinsically interdisciplinary subject with strong connections to astronomy (tidal forces), biology (ecosystems), geography (world climate), geology (sea floor tectonics), and physics (waves). We begin with the history of ocean exploration and origin of Earth and life and learn about properties of seawater, air-sea interactions, atmospheric and oceanic circulation, El Nino-Southern Oscillation, waves, tides, and tsunamis.

0101	Corinne Hartin MWF 10:00am - 10:50am	Seats (Total: 23) CSS 0201	

AOSC400 **Physical Meteorology of the Atmosphere**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141); or permission of CMNS-Atmospheric & Oceanic Science department. Formerly: METO400.

The application of basic classical physics, chemistry and mathematics t the study of the atmosphere. Composition of the atmosphere; energy sources and sinks (radiation in the atmosphere; radiative balance and radiative forcing of atmospheric processes); atmospheric thermodynamics; clouds and precipitation physics; atmospheric electricity and optics; mesoscale processes (e.g., orographic mesoscale phenomena and instabilities); air mass boundaries; severe weather, tropical cyclones; storms; global circulation.

0101	Rachel Pinker	Seats (Total: 32)
	TuTh 11:00am - 12:15pm	CSS 2416

AOSC420 Physical Oceanography

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and PHYS141. Recommended: AOSC200. Also offered as: AOSC670, GEOL670. Credit only granted for: AOSC420, AOSC670, or GEOL670.

Ocean observations. Water masses, sources of deep, intermediate, and surface water. Mass, heat, and salt transport, and the meridional overturning circulation. Geochemical tracers and cycles, including carbon. Western boundary currents, mixed layers, and processes maintaining the thermocline. Coastal and estuarine processes. Surface waves and tides. the ocean's role in climate.

0101	James Carton	Seats (Total: 12)
	MW 3:15pm - 4:30pm	CSS 2416

AOSC431 Atmospheric Thermodynamics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141). Recommended: MATH246. Credit only granted for: AOSC431 or METO431. Formerly: METO431.

Classical thermodynamics applied to both the dry and the moist atmosphere. Composition; phase changes of water; stability concepts; Properties of aerosols and clouds, cloud nucleation and precipitation processes, atmospheric electricity, cloud and precipitation chemistry.

0101	Ning Zeng	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSS 2416

AOSC470 Synoptic Meteorology

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432. Credit only granted for: AOSC470, AOSC600, or METO600.

Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitiude and mesoscale weather systems. Tropical meteorology. Weather forecasting using numerical and statistical models. Prediction of weather phenomena on the global, syoptic, meso, and local scales. Analysis of surface and upper air data; Norwegian cyclone model; introduction to weather forecasting.

0101	Daryl Kleist	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSS 2428

AOSC493 Senior Research Project I

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Restriction: Must be in Atmospheric and Oceanic Science program. Or must not be in Atmospheric and Oceanic Science program; and permission of instructor.

Technical writing and oral presentation skills. Planning, writing, and presenting a plan for research in the geosciences.

0101	Timothy Canty	Seats (Total: 10)
	M 2:00pm - 3:00pm	Location: TBA
	F 2:00pm - 3:30pm	Location: TBA

AOSC494 Atmospheric and Oceanic Science Seminar

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432.

Exposure to a wide range of contemporary topics in atmospheric, oceanic and climate sciences, to foster research interests and promote critical thinking through the weekly AOSC departmental seminar series.

0101	Daryl Kleist	Seats (Total: 20)
	Th 3:30pm - 4:30pm	CSS 2400

AOSC498 Senior Research Project II

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The project will be based on the research or development plan created i AOSC493. It may be completed with the approval of a faculty advisor in conjunction with an internship. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

AOSC499 **Special Problems in Atmospheric Science**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

Contact department for information to register for this course.

AOSC600 **Synoptic Meteorology I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: AOSC610. Credit only granted for: AOSC470 or AOSC600. Formerly: METO600.

Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitude and mesoscale weather systems. Tropical meteorology.

0101	Daryl Kleist TuTh 9:30am - 10:45am	Seats (Total: 10) CSS 2428
AM01	Daryl Kleist TuTh 9:30am - 10:45am	Seats (Total: 4) CSS 2428

AOSC610 **Dynamics of the Atmosphere and Ocean I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH462; or students who have taken courses with comparable content may contact the department. Formerly: METO610.

Equations of motion and their approximation, scale analysis for the atmosphere and the ocean. Conservation properties. Fluid motion in the atmosphere and oceans. Circulation and vorticity, geostrophic motion and the gradient wind balance. Turbulence and Ekman Layers.

0101	Sumant Nigam MF 9:00am - 9:50am W 9:00am - 9:50am	Seats (Total: 30) CSS 2428 CSS 2428
AM01	Sumant Nigam MF 9:00am - 9:50am W 9:00am - 9:50am	Seats (Total: 5) CSS 2428 CSS 2428

AOSC614 **Atmospheric Modeling, Data Assimilation and Predictability**

Credits: 3 Grading Method: Regular

Prerequisite: AOSC610; or permission of instructor. Formerly: METO614.

Solid foundation for atmospheric and oceanic modeling and numerical weather prediction: numerical methods for partial differential equations, an introduction to physical parameterizations, modern data assimilation, and predictability.

0101	Eugenia Kalnay W 10:00am - 12:30pm	Seats (Total: 20) CSS 2416
AM01	Eugenia Kalnay W 10:00am - 12:30pm	Seats (Total: 5) CSS 2416

AOSC620 **Physics and Chemistry of the Atmosphere I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department. Formerly: METO620.

Air parcel thermodynamics and stability; constituent thermodynamics and chemical kinetics. Cloud and aerosol physics and precipitation processes.

0101	Russell Dickerson TuTh 2:00pm - 3:15pm	Seats (Total: 25) CSS 2416
AM01	Russell Dickerson TuTh 2:00pm - 3:15pm	Seats (Total: 5) CSS 2416

AOSC652 **Analysis Methods in Atmospheric and Oceanic Science**

(Perm req) Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS141 and MATH241; or students who have taken courses with comparable content may contact the department. Recommended: AMSC460, CMSC660, AMSC660, or CMSC460.

A variety of the analysis methods used by atmospheric and oceanic scientists will be applied to observational data sets such as Vostok ice core record, temperature trends, and satellite measurements of ozone,sea ice, etc. in a hands-on, computer laboratory setting. Students will be exposed to Fortran, IDL, and Matlab as well as modern file formats such as HDF and netCDF. No prior programming experience required.

0101	Ross Salawitch MWF 12:45pm - 1:50pm	Seats (Total: 8) CSS 3426
AM01	Margaret Marvin, Ross Salawitch MWF 12:45pm - 1:50pm	Seats (Total: 2) CSS 3426

AOSC658E Special Topics in Meteorology; Data Assimulation

Credits: 3 Grading Method: Regular, Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

Contact department for information to register for this course.

AOSC658N Special Topics in Meteorology

Credits: 1-3 Grading Method: Regular, Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

0101	Sumant Nigam, Alfredo Ruiz-Barradas Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 10)
AM01	Sumant Nigam, Alfredo Ruiz-Barradas Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)

AOSC663 Water and Climate Systems

Credits: 3 Grading Method: Regular

Prerequisite: AOSC610; and undergraduate level hydrology and/or hydrogeology, familiarity with differential calculus and equations. Please consult with instructor for details.

Focuses on exploring options for adaptation and building resilience to the possible impacts of climate change through an interwoven understanding of the physical, biological, social, cultural, economic and institutional constraints of water resources issues and consideration of climate-related risks in the management and decision-making process.

0101	Fernando Miralles-Wilhelm MW 4:30pm - 5:45pm	Seats (Total: 20) CSS 2416
AM01	Fernando Miralles-Wilhelm MW 4:30pm - 5:45pm	Seats (Total: 5) CSS 2416

AOSC670 Physical Oceanography

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Also offered as: AOSC420, GEOL670. Credit only granted for: GEOL670, AOSC670 or AOSC420.

Ocean observations. Water masses, sources of deep water. Mass, heat, and salt transport, geochemical tracers. Western boundary currents, maintenance of the thermocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.

0101	James Carton MW 3:15pm - 4:30pm	Seats (Total: 11) CSS 2416
AM01	James Carton MW 3:15pm - 4:30pm	Seats (Total: 2) CSS 2416

AOSC680 Introduction to Earth System Science

Credits: 3 Grading Method: Regular, Audit

An introduction to the study of the earth as a system: atmosphere, oceans, land, cryosphere, solid earth, and humans. Cycling of materials and energy in the earth system: the energy cycle, the hydrologic cycle, the carbon cycle, the nitrogen cycle. Climate processes and variability: land-atmosphere, ocean-atmosphere, biosphere-climate, and human interactions, short- and long-term variability in climate.

0101	Antonio Busalacchi W 1:00pm - 3:30pm	Seats (Total: 20) EGR 1110
AM01	Antonio Busalacchi W 1:00pm - 3:30pm	Seats (Total: 5) EGR 1110

AOSC798 **Directed Graduate Research**

Credits: 1-3 Grading Method: Sat-Fail

Contact department for information to register for this course.

AOSC818 **Frontiers in Atmosphere, Ocean, Climate, and Synoptic Meteorology Research**

Credits: 1 Grading Method: Sat-Fail

A broad range of topics in the contemporary sciences of atmosphere, ocean, climate and synoptic meteorology are covered.

0101	Daryl Kleist Th 3:30pm - 4:30pm	Seats (Total: 20) CSS 2400
AM01	Daryl Kleist Th 3:30pm - 4:30pm	Seats (Total: 5) CSS 2400

AOSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Fall 2015

ARAB104 **Elementary Modern Standard Arabic I-II**

Credits: 6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

An intensive course focusing on developing functional proficiency in th standard Arabic language, both written and formal spoken. Begins with script and phonology, and develops into a limited range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

Seats will be opened gradually by the registrar's office, to a total of 15 seats per section.

0101	Peter Glanville MWF 10:00am - 11:50am	Seats (Total: 14) LEF 1171
0201	Lutf Alkebsi MWF 2:00pm - 3:50pm	Seats (Total: 14) KEY 0124
0301	Dina El-Hefnawy MWF 12:00pm - 1:50pm	Seats (Total: 14) JMZ 0103
0401	Hebatalla Salem MWF 1:00pm - 2:50pm	Seats (Total: 14) HBK 1108

ARAB204 **Intermediate Modern Standard Arabic I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ARAB105; and must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.

Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.

0101	Lutf Alkebsi MWF 12:00pm - 1:50pm	Seats (Total: 15) PLS 1172
0201	Zein El-Amine MWF 10:00am - 11:50am	Seats (Total: 15) SQH 1111

ARAB206 **Elementary Egyptian Colloquial Arabic III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB107; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic.

Develops listening and speaking skills in Egyptian Arabic. Covers family, school, shopping, and social interaction. Some reading in Arabic.

Prerequisite: ARAB205.

0101	Dina El-Hefnawy TuTh 12:30pm - 1:45pm	Seats (Total: 15) JMZ 3205	

ARAB207 **Elementary Egyptian Colloquial Arabic IV**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB206; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Arabic.

Further develops listening and speaking skills in Egyptian Colloquial Arabic, extending range of contexts where it merges with Modern Standard Arabic. Some reading in Arabic.

Contact department for information to register for this course.

ARAB304 **Advanced Modern Standard Arabic I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic. Formerly: ARAB301.

Advanced grammar, reading, writing, speaking in Arabic; study of contemporary Arabic society, politics, and culture.

0101	Dina El-Hefnawy TuTh 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 15) JMZ 1103 JMZ 3122	 Lab
0201	Zein El-Amine MW 3:00pm - 4:15pm F 3:00pm - 3:50pm	Seats (Total: 15) JMZ 3122 JMZ 3122	 Lab

ARAB321 **Arabic Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARAB305; or permission of instructor.

Examines the role of the Arabic media in shaping public opinion and influencing relations between the Arab world and the non-Arab world. Focus on content and acquistion of Modern Standard Arabic. Taught in Arabic.

0101	Lutf Alkebsi	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 3205

ARAB386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Pre-professional experience in research, analysis and writing in a work setting. Project proposal approved by faculty and internship sponsor. Junior standing.

Contact department for information to register for this course.

ARAB398E **Special Topics in Arabic Studies; Egyptian Pop Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of a particular aspect of Arabic culture, literature, and language. Specific topic to be announced when offered. Taught in Arabic.

Taught in English. A study of the relationship between culture and ideology in Egypt, with particular focus on popular cultural discourses before and after the 2011 Revolution. A variety of genres are examined, including television, film, social media and cyberculture, music, popular literature, and consumer culture.

0101	Valerie Anishchenkova	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SQH 1105

ARAB499C **Special Topics in Arabic Studies; Current Social Issues in Egypt**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB305 Taught in Arabic.

0101	Hebatalla Salem	Seats (Total: 15)
	MW 3:00pm - 4:15pm	JMZ 0205

ARAB499J **Special Topics in Arabic Studies; Contemporary Issues in the Arab World**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB305 Taught in Arabic.

0101	Zein El-Amine TuTh 3:30pm - 4:45pm	Seats (Total: 15) JMZ 0118	

ARAB628A **Special Topics in Arabic Studies; Arabic Audiovisual Discourses**

Credits: 3 Grading Method: Regular, Audit

In-depth study of a particular aspect of Arabic Studies. Topics to be announced when course if offered. Taught in Arabic.

Contact department for information to register for this course.

ARCH Architecture Fall 2015

ARCH170 **Design Thinking and Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Examines conceptual, perceptual, behavioral, and technical aspects of the built environment, and methods of analysis, problem-solving, and design implementation.

0101	Ronit Eisenbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ARC 1101	Discussion
0102	Ronit Eisenbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ARC 1103	Discussion
0103	Ronit Eisenbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ASY 3217	Discussion

0104	Ronit Eisenbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ARC 1111	Discussion
0105	Ronit Eisenbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ARC 1127	Discussion
0106	Ronit Eisenbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 19) ARC 0204 ARC 1123	Discussion
0107	Ronit Eisenbach MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ARC 1101	Discussion
0108	Ronit Eisenbach MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ARC 1123	Discussion
0109	Ronit Eisenbach MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ARC 1103	Discussion
0118	Ronit Eisenbach MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 19) ARC 0204 ARC 1127	Discussion
FC01	Marisa Allen TuTh 7:30pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 22) ARC 1105	

ARCH225 **History of World Architecture I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pre-1500 World Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and cultural production through architecture

0101	Cynthia Field TuTh 2:00pm - 3:15pm	Seats (Total: 150) ARC 0204	

ARCH227 **History of World Architecture III**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher.

Survey of architectural history from 1800 to present.

0101	Isabelle Gournay TuTh 3:30pm - 4:45pm	Seats (Total: 120) ARC 0204	

ARCH242 **Basic Architectural Drawing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARCH170; or ARCH171.

Study of drawing as a learned skill with emphasis on observation, documentation, analysis, and synthesis. This introductory course immerses students in visual thinking and learning how to see through drawing. The course explores the traditional conventions of architectural drawing (orthographics, isometrics, axonometrics, and linear perspective) as well as abstract and pictorial visualization techniques primarily through freehand drawing and sketching.

0101	Lester Escobal F 8:00am - 9:50am M 8:00am - 9:50am	Seats (Total: 18) ARC 0204 Location: TBA	Lab
0102	Lester Escobal F 8:00am - 9:50am M 10:00am - 11:50am	Seats (Total: 18) ARC 0204 Location: TBA	Lab
0105	Lester Escobal F 8:00am - 9:50am F 10:00am - 11:50am	Seats (Total: 18) ARC 0204 Location: TBA	Lab
0106	Lester Escobal F 8:00am - 9:50am F 12:00pm - 1:50pm	Seats (Total: 18) ARC 0204 Location: TBA	Lab

ARCH270 **Design in Practice**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Case studies and hands-on design projects ranging in scale from a product to a building to give students insight into the process by which architects work both individually and collaboratively to put disciplinary knowledge and expertise into practice to shape our built environment.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more informationon the Fearless Ideas Courses.

0101	Madlen Simon	Seats (Total: 90)
	TuTh 2:00pm - 3:15pm	ASY 2203

ARCH386 **Experiential Learning**

Credits: 3-6 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Restriction: Must have learning proposal approved by faculty sponsor and student's internship sponsor; and sophomore standing or higher; and permission of ARCH-Architecture Program.

Learning experience tied to internship of specified duration with targeted learning outcomes.

0101	Michael Brick	Seats (Total: 10)
	Contact instructor or department for details.	

ARCH400 **Architecture Studio I**

(Perm req)

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; and permission of ARCH-Architecture Program.

Introduction to architectural design with particular emphasis on conventions and principles of architecture, visual and verbal communication skills, formal analysis, design process, spatial composition, architectural promenade, basic program distribution, and elementary constructional and environmental responses.

Offered fall only.

0102	Michael Abrams	Seats (Total: 54)
	MWF 2:00pm - 6:00pm	Location: TBA

ARCH402 **Architecture Studio III**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: Minimum grade of C- in ARCH401. Restriction: Must be in Architecture (B.S.) program.

Architectural design studio with emphasis on building and facade typologies, the development of architectural promenade and sequence, public and/or civic infill buildings dependent upon the architectural promenade, and urban housing types of varying densities. The architect's obligations to urban context are explored in many dimensions including historical, typological, and physical.

Offered fall only.

0101	Elijah Northen	Seats (Total: 54)
	MWF 2:00pm - 6:00pm	Location: TBA

ARCH404 **Graduate Architecture Design Studio I**

Credits: 6

Grading Method: Regular, Audit

Recommended: For 3 1/2 year graduate students only. Restriction: Must be in Architecture (Master's) program.

Introduction to architectural design with particular emphasis on conventions and principles of architecture , visual and verbal communication skills, formal analysis, design process, spatial composition, architectural promenade, basic program distribution, and elementary constructional and environmental responses. Offered fall only.

0101	Ronit Eisenbach	Seats (Total: 12)
	MWF 2:00pm - 6:00pm	Location: TBA

ARCH406 **Graduate Architecture Design Studio III**

Credits: 6

Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ARCH405. Restriction: Must be in Architecture (Master's) program.

Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.

0101	Madlen Simon	Seats (Total: 16)
	MWF 2:00pm - 6:00pm	Location: TBA

ARCH410 **Architecture Technology I**

(Perm req)

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH220 or MATH140; and PHYS121; and (GEOG140, GEOG123, GEOL120, AOSC123, GEOL123, or BSCI205). Corequisite: ARCH400. Restriction: Must be in Architecture (B.S.) program.

First course in a four course sequence which develops the knowledge and skills of architectural technology. Addresses climate, human responses to climate, available materials, topography and impact on culture. Principles of assembly, basic structural principles and philosophies of construction.

Offered fall only.

0101	Carl Bovill TuTh 11:00am - 12:45pm	Seats (Total: 80) ARC 0204

ARCH412 **Architecture Technology III**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ARCH411. Corequisite: ARCH402. Restriction: Must be in Architecture (B.S.) program.

Third course in a four course sequence. Design of steel, timber, and reinforced concrete elements and subsystems; analysis of architectural building systems. Introduction to design for both natural and man-made hazards.

0101	Michael Binder TuTh 9:00am - 10:45am	Seats (Total: 80) ARC 0204

ARCH419 **Independent Studies in Architectural Technology**

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH426 **Fundamentals of Architecture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Architecture (B.S.) program; and must be in the 3.5 year M. ARCH program.

Thematic introduction of a variety of skills, issues, and ways of thinking that bear directly on the design and understanding of the built world.

Offered fall only.

0101	Isabelle Gournay Th 5:00pm - 7:30pm	Seats (Total: 15) ARC 1123

ARCH429 **Independent Studies in Architectural History**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have faculty sponsor and receive approval of the Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH435 **History of Contemporary Architecture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH221; or permission of ARCH-Architecture Program.

Architectural history from World War II to the present.

0101	Isabelle Gournay TuTh 11:00am - 12:15pm	Seats (Total: 43) ARC 1101

ARCH443 **Visual Communication For Architects**

Credits: 3 Grading Method: Regular

Corequisite: ARCH400. Restriction: Must be in Architecture (Master's) program; and must be in the 3.5 year M. ARCH program.

Investigation of the relationship between drawing from life and architectural drawing, the conventions of architectural drawing and the role of architectural drawing as a means to develop, communicate, and generate architectural ideas.

0101	James Tilghman TuTh 9:30am - 10:45am	Seats (Total: 19) ARC 1123	

ARCH449 **Independent Studies in Visual Studies for Architects**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH460 **Site Analysis and Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARCH400; or permission of ARCH-Architecture Program.

Principles and methods of site analysis; the influence of natural and man-made site factors on site design and architectural form.

0101	Jana Vandergoot W 10:00am - 12:50pm	Seats (Total: 40) Location: TBA

ARCH470 **Computer Applications in Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARCH400; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Introduction to computer utilization, with emphasis on architectural applications.

For ARCH majors only.

0101	Brent White Tu 7:00pm - 9:30pm Th 7:00pm - 8:15pm	Seats (Total: 18) ARC 1115 ARC 1115	 Lab

ARCH479 **Independent Studies in Architecture**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH489 **Independent Studies in Architectural Preservation**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Curriculum Committee.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ARCH600 **Comprehensive Design Studio V**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Prerequisite: ARCH403; or students who have taken courses with comparable content may contact the department. Corequisite: ARCH611. Restriction: Must be in Architecture (Master's) program.

Comprehensive building and site design. Course content bridges the gap between design and technology, between practice and education, in a studio setting. Explorations include the integration of conceptual and technical aspects of architectural form and assembly, highlighting the ways in which multiple layers of a building design are developed, coordinated and resolved.

0101	Peter Noonan MWF 2:00pm - 6:00pm	Seats (Total: 40) Location: TBA

ARCH611 **Advanced Architecture Technology Seminar**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ARCH413. Corequisite: ARCH600. Restriction: Must be in Architecture (Master's) program.

Technology in design of buildings. Application of technological issues in building design; integration of technology in architecture; technology as a form determinant in architecture; other conceptual and philosophical issues related to the application of technology in the design, construction, and use of buildings.

Offered fall only.

0101	Carl Bovill, Gary Strand TuTh 5:00pm - 6:15pm	Seats (Total: 19) ARC 1103
0102	Gary Strand, Carl Bovill TuTh 5:00pm - 6:15pm	Seats (Total: 19) ARC 1103

ARCH629 **Independent Studies in Architectural History**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Proposed work must have faculty sponsor and receive approval of the Curriculum Committee.

0701	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0901	Instructor: TBA Contact instructor or department for details.	Seats (Total: 2)

ARCH678 **Selected Topics in Architecture**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Restricted to ARCH majors only.

Contact department for information to register for this course.

ARCH679 **Independent Studies in Architecture; Independent Study in Architecture**

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

ARCH700 **Advanced Urban Design Studio VII**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Prerequisite: ARCH600; or permission of ARCH-Architecture Program.

Studio problems and theories concentrating on urbanism and urban design techniques. Issues and sites range from high density urban in-fill to suburban and greenfield development in American and other contexts. Studio theories explore such topics as Contextualism, Neo-Traditional design, Transit-Oriented Development, density, sustainable development building typology, and street design.

0101	Matthew Bell TuTh 1:00pm - 6:00pm	Seats (Total: 16) ARC 1127
0201	Jana Vandergoot TuTh 1:00pm - 6:00pm	Seats (Total: 16) ARC 1111

ARCH770 **Professional Practice**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ARCH601; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (Master's) program.

Project management, organizational, legal, economic and ethical aspects of architecture.

0101	Andrew Pressman M 11:00am - 1:50pm	Seats (Total: 30) ARC 1101

ARCH797 **Thesis Proseminar**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ARCH601.

Directed research and preparation of thesis program.

0101	Brian Kelly TuTh 9:30am - 10:45am	Seats (Total: 40) ARC 1103

ARCH798 **Thesis in Architecture**

(Perm req)

Credits: 3

Grading Method: Regular

Complements the research of ARCH 799, with presentation of the design research to student's thesis committee.

Contact department for information to register for this course.

ARCH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Development of master's thesis.

Restricted to ARCH majors only.

Contact department for information to register for this course.

AREC Agricultural and Resource Economics Fall 2015

AREC200 **The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS, DSSP, SCIS

The Chesapeake Bay is one of the most studied and monitored ecosystems in the world. To develop effective policies to restore this system to a healthier status requires integrating what we know about the biological and physical properties of the system with our understanding of the human dimension. Issues such as achieving nutrient reduction goals, restoring healthy blue crab and oyster fisheries in the bay will be used to demonstrate how economics interacts with science to guide policies that can be effective in achieving Bay restoration goals.

0101	Keryn Gedan, Jorge Holzer Bilbao MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 35) BPS 1250 PLS 1111	Discussion
0102	Jorge Holzer Bilbao, Keryn Gedan MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 35) BPS 1250 EGR 3106	Discussion
0103	Keryn Gedan, Jorge Holzer Bilbao MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 35) BPS 1250 KEB 1200	Discussion
0104	Jorge Holzer Bilbao, Keryn Gedan MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 35) BPS 1250 HBK 0108	Discussion

AREC241 **Environment, Economics and Policy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: AREC240 or AREC241.

Studies the relationship between the economy, environment and policy. Causes of modern environmental problems and policies to address them. Importance of production, consumption, externalities, property rights and public goods in environmental issues. Technological and incentive-based solutions to environmental problems.

0101	Lars Olson TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 35) TYD 1101 BPS 1236	Discussion
0102	Lars Olson TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 35) TYD 1101 BPS 1236	Discussion

AREC250 **Elements of Agricultural and Resource Economics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: ECON200, AREC240 or AREC250.

An introduction to economic principles of production, marketing, agricultural prices and incomes, farm labor, credit, agricultural policies, and government programs.

0101	Mary Zaki TuTh 11:00am - 12:15pm	Seats (Total: 100) TYD 0117

AREC306 **Farm Management and Sustainable Food Production**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

The organization and operation of farm businesses are explored through principles of management, financial analysis, production economics, marketing, and business planning. These farm management principles are presented in the context of a sustainable food production system.

0101	Dale Johnson MW 3:30pm - 4:45pm	Seats (Total: 40) EGR 1202

AREC326 **Intermediate Applied Microeconomics**

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or AREC250; and ECON201; and (MATH220, MATH140, or MATH130). Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness). Credit only granted for: ECON306, ECON326, AREC489M, or AREC326. Formerly: AREC489M.

Deepens and broadens your ability to apply rigorous economic analysis skills to a broad range of problems.

0101	Daniel Voica TuTh 9:30am - 10:45am	Seats (Total: 30) WDS 1114	

AREC345 Global Poverty and Economic Development

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

This interdisciplinary course explores social and economic development around the world. Topics include geography, democratization, political instability and conflict, health and education, agricultural development, micro-entrepreneurship, and an introduction to impact evaluation methods used to evaluate the efficacy of public policy aimed at alleviating poverty.

0101	Pamela Jakiela MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 40) TYD 2106 TYD 1114	 Discussion
0102	Pamela Jakiela MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 40) TYD 2106 HBK 0103	 Discussion

AREC365 World Hunger, Population, and Food Supplies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.

0101	Kenneth Leonard MWF 1:00pm - 1:50pm	Seats (Total: 300) PHY 1412

AREC386 Experiential Learning

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

AREC388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0401	Robert Chambers Contact instructor or department for details.	Seats (Total: 5)
3008	Vivian Hoffmann Contact instructor or department for details.	Seats (Total: 5)
3103	Kenneth Leonard Contact instructor or department for details.	Seats (Total: 5)

AREC399 **Special Problems**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

Contact department for information to register for this course.

AREC430 **Introduction to Agricultural and Resource Law**

Credits: 3 Grading Method: Regular

Prerequisite: ECON326, ECON306, or AREC326. Restriction: Must be in a major within the AGNR-Agricultural & Resource Economics department. Credit only granted for: AREC430 or AREC489K. Formerly: AREC489K.

Survey of law with emphasis on problems and applications related to agricultural and natural resource economics. The course emphasizes strategies for managing legal risk arising from ownership, management, and use of agricultural resources. Students will get practical information to utilize in personal or professional settings. Contract law, constitutional law, tort law, property law, real estate transactions, business organization, estate planning, and debtor.

0101	Paul Goeringer MWF 9:00am - 9:50am	Seats (Total: 75) MCB 1207

AREC433 **Food and Agricultural Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or ECON306; or students who have taken courses with comparable content may contact the department.

Economic and political context of governmental involvement in the farm and food sector. Historical programs and current policy issues. Analysis of economic effects of agricultural programs, their benefits and costs, and comparison of policy alternatives. Analyzes the interrelationship among international development, agricultural trade and general economic and domestic agricultural policies.

0101	Howard Leathers MWF 10:00am - 10:50am	Seats (Total: 38) PHY 1219

AREC453 **Natural Resources and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or ECON306; or students who have taken courses with comparable content may contact the department.

Rational use and reuse of natural resources. Theory, methodology, and policies concerned with the allocation of natural resources among alternative uses. Optimum state of conservation, market failure, safe minimum standard, and cost-benefit analysis.

0101	Erik Lichtenberg TuTh 2:00pm - 3:15pm	Seats (Total: 80) TYD 2106

AREC455 **Economics of Land Use**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON326 or ECON306; or students who have taken courses with comparable content may contact the department.

Fundamentals of location theory. Microeconomics of land use decisions, including determination of rent and hedonic pricing models. Impacts of government decisions on land use, including regulation (e.g., zoning), incentives (transferable development rights), provision of public services, and infrastructure investments. Impacts of land use on environmental quality, including issues relating to sprawl, agricultural land preservation, and other topics of special interest.

0101	David Newburn	Seats (Total: 80)	
	TuTh 3:30pm - 4:45pm	ARM 0135	

AREC620 **Optimization in Agricultural and Resource Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed Multivariate calculus and matrix or linear algebra.

Mathematical theory of static and dynamic optimization as applied to the economics of agriculture, natural resources and the environment. Topics include necessary and sufficient conditions for constrained optimization, convexity and concavity, duality and the envelope theorem, comparative statics, fixed point theorems, optimal control theory and dynamic programming.

0101	Lars Olson	Seats (Total: 25)	
	Th 4:00pm - 6:30pm	SYM 0115	
	Tu 11:00am - 12:30pm	SYM 0115	Discussion

AREC623 **Applied Econometrics I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Differential and integral calculus and linear algebra; or permission of instructor.

Fundamentals of mathematical statistics for applications in econometrics. Development of the standard linear model and variations of assumptions with computer applications to applied econometric problems.

0101	Snaebjorn Gunnsteinsson	Seats (Total: 27)	
	MW 10:00am - 12:30pm	SYM 0209	
	F 10:00am - 12:00pm	SYM 0209	Discussion

AREC632 **Agricultural Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AREC832. Credit only granted for: AREC632 or AREC832.

The economics of agricultural policies. Methods for analyzing costs and benefits of price supports, import restraints, and other policies for producers, consumers, and taxpayers. Farm programs of the U.S., other industrial countries and developing countries including interventions in both domestic markets and international trade are covered along with their consequences for factor owners and related commodity markets. Theories of the farm problem and possible remedies are offered.

0101	Erik Lichtenberg	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SYM 2200B

AREC699 **Special Problems in Agricultural and Resource Economics**

(Perm req)

Credits: 1-2 Grading Method: Regular, Audit

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

Contact department for information to register for this course.

AREC785 **Advanced Economics of Natural Resources**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department; or (ECON603 and AREC623). Also offered as: ECON785. Credit only granted for: AREC785 or ECON785.

The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.

0101	Jorge Holzer Bilbao, Sebastien Houde	Seats (Total: 28)
	MW 1:00pm - 2:15pm	HBK 0123

AREC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

AREC815 **Experimental and Behavioral Economics**

Credits: 3 Grading Method: Regular

Prerequisite: AREC623, AREC624, ECON603, and ECON604; or equivalent. Credit only granted for: AREC815 or AREC869A. Formerly: AREC869A.

An overview of the design, implementation, and analysis of experiments motivated by behavioral economics, with a particular focus on experiments in field settings. Topics covered include social preferences, risk aversion, prospect theory, present bias, overconfidence, and limited attention.

0101	Pamela Jakiela	Seats (Total: 25)
	MW 2:15pm - 3:30pm	SYM 0115

AREC832 **Advanced Agricultural Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Also offered as: AREC632. Credit only granted for: AREC632 or AREC832.

Research problems in agricultural policy that include models and methods for explaining the consequences and causes of intervention in agricultural commodity markets. Quantitative, market level analysis of the implications of uncertainty, strategic behavior in international trade, second-best policies, the general equilibrium analysis of intervention, and the political economy of collective action in farm policy.

0101	Erik Lichtenberg	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SYM 2200B

AREC892 **Dissertation Prospectus Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Completion of two years of the AREC Ph.D. program. Credit only granted for: AREC 869P or AREC 892. Formerly: AREC869P.

Presentations of proposed dissertation research including literature review, model development, data identification, and written prospectus development. Required of all third-year Ph.D. students.

0101	Stephen Salant	Seats (Total: 35)
	Contact instructor or department for details.	

AREC898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

AREC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ARHU Arts and Humanities Fall 2015

ARHU158B **Explorations in Arts and Humanities; Metaphor: The Art of Connecting the Self to Others**

Credits: 3 Grading Method: Regular

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to First-year freshman in the College of Arts and Humanities. Many scientists believe that metaphors are fundamental to human thought and action, allowing us to process new information in terms of the familiar. In this course we will examine the role of metaphor in literature, visual arts, and history. We will consider what metaphor suggests about the connections between the objects, cultures, and peoples of our world.

0101	Mark Forrester	Seats (Total: 20)
	MW 3:30pm - 4:45pm	TWS 0205

ARHU158C **Explorations in Arts and Humanities; Who am I? The Power of Identity and Labeling in Multicultural Societies**

(Perm req)

Credits: 3 Grading Method: Regular

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first-semester freshmen in the College of Arts and Humanities. How do you define yourself? How do others label you? Through research studies, literature, film and media, students will explore how personal and cultural histories, stereotypes, and relationships between and within majority and minority groups create our identities and senses of self in multicultural America.

0101	Avital Feuer	Seats (Total: 16)
	TuTh 11:00am - 12:15pm	JMZ 3118

ARHU158D **Explorations in Arts and Humanities; Lives of Performance**

Credits: 3 Grading Method: Regular

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first-semester freshmen in the College of Arts and Humanities. Explore "Live" performance and its many afterlives in audio and visual media. Study performance as an art form, ranging from Shakespeare to the Cohen Brothers, and as a social practice that includes race, sexuality, and political protest. Students will approach performance from the perspectives of literary studies, musicology, theater studies, and more; working throughout the course on collaborative projects that find their own creative ways to engage communities.

0101	Scott Trudell	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	TWS 0214

ARHU158E **Explorations in Arts and Humanities; Bodies and Healing in the Humanities- Imagining Self in the World**

Credits: 3 Grading Method: Regular

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first-semester freshmen in the College of Arts and Humanities. When we get sick, we may understand the scientific, medical reason, but we still often wonder what is "the real" reason our bodies malfunction. Is our social knowledge of medicine becoming more complex commensurate with scientific developments, or is it primarily a reflection of cultural and historical traditions? In this course, we will employ the approaches of historians, scholars of film and literature to understand how medical knowledge circulates, evolves and creates meaning in culture.

0101	Andrew Schonebaum	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	EGR 0108

ARHU269M **Special Topics in Study Abroad II; Sicily Against the Mafia**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU269P **Special Topics in Study Abroad II; Mystery Paintings**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU269V **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARHU275 **Writing to be Seen: Scriptwriting for Theatre, Film, and Television**

Credits: 3 Grading Method: Regular, Pass-Fail

Also offered as: ENGL275. Credit only granted for: ENGL278D, ENGL275, ARHU319B or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to theory and practice of scriptwriting with opportunity to read, view, evaluate, write, and revise texts meant to be performed for spectators. Practice writing for the stage, film and television, with emphasis on critical reading of textual and visual literary models. Theory and scholarship teaching opportunities and advantages of each format. Application of scholarship to analysis and critique of plays and texts successful across two different formats. Examination of selected scripts, performances, and film and television clips as models for students' own creative work. Frequent writing exercises and use of workshop format.

0101	Douglas Kern	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	TWS 1107

ARHU286 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major in ARHU-College of Arts & Humanities; and must have earned a minimum of 12 credits.

Designed for ARHU students who wish to complete an internship in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students will be required to attend four weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler	Seats (Total: 5)
	Contact instructor or department for details.	

ARHU298L **Critical Approaches to Traditional and Non-Traditional Literary Forms across Different Cultures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Examines the different types of literature (Novel, Short Story, Flash Fiction, Comics, etc.) produced by groups or individuals under diverse circumstances (cultural, historical, political, geographical, economic, philosophical, etc.). The required texts will provide the students with an opportunity to revaluate some commonly underestimated literary forms, such as flash fiction, comics orspoken word poetry and to understand the function of these manifestations in relationship to more traditional (canonical) expressions such as the novel.

FC01	Vivianne Salgado TuTh 4:30pm - 5:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) TYD 1102

ARHU299T **Studies in Humanities Technology; Tech Apprentice Program**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Selected topics in the use of Information Technology in the Humanities.

Also offered as AGNR270. Restricted to ARHU students. Prerequisite: permission of department.

0101	Deborah Mateik F 10:00am - 12:30pm	Seats (Total: 10) MMH 1304

ARHU318 **Writers' House Colloquium: Creative Writing Across Languages and Cultures**

(Perm req)

Credits: 1 | Grading Method: Regular

Colloquium designed to improve students' skills in literary and communication arts through lectures and discussions on the history and craft of writing across cultures. Topics for the different versions of ARHU 318 include poetry, fiction, writing for different media, autobiography and memoir, scriptwriting, screenwriting, and community engagement projects.

For Writers' House students only. For further details please contact Johnna Schmidt at jmschmid@umd.edu. Course will meet in Queen Anne's Library.

0101	Johnna Schmidt W 4:00pm - 5:30pm	Seats (Total: 20) QAN 1132
0201	Kelly Forsythe W 7:00pm - 8:30pm	Seats (Total: 20) QAN 1132

0301	Megan Kuyatt M 3:30pm - 5:00pm	Seats (Total: 15) QAN 1132

ARHU319 **Writers' House Second Year Colloquium: Form and Theory of Creative Writing**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.

For Writers' House students only. For further details please contact Johnna Schmidt jmschmid@umd.edu.Course will meet in Queen Anne's Library

0101	Jesse Brooks M 5:30pm - 8:00pm Contact instructor or department for details.	Seats (Total: 20) QAN 1132
0201	Laura Lauth Th 5:30pm - 8:00pm Contact instructor or department for details.	Seats (Total: 20) QAN 1132

ARHU338 **Undergraduate Teaching Assistantship in the Writers' House**

(Perm req)

Credits: 3 Grading Method: Regular

Offers exceptional students the opportunity to work closely with a Writer's House faculty member and gain valuable experience. Writers' House UTAs also serve as peer mentors and program leaders. The TA assists with course planning, research, and student advising (as appropriate). Open to graduates of Writer's House notation program.

0101	Johnna Schmidt Contact instructor or department for details.	Seats (Total: 10)

ARHU386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0101	Paula Nadler Contact instructor or department for details.	Seats (Total: 30)

ARHU468A **Peer Mentoring Program; Arts and Humanities' Ambassador Program**

(Perm req)

Credits: 1 Grading Method: Regular

A workshop for sophomore, junior or senior students who wish to serve a peer mentors helping first-year students to cope with the numerous issues which often arise in the transition to the university.

Restricted to current ARHU students who will serve as ambassadors for the College of Arts and Humanities.

0101	J Greene	Seats (Total: 35)
	Th 4:00pm - 5:30pm	HBK 0105

ARHU486 **Internship Practicum in Arts and Humanities**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler	Seats (Total: 25)
	Contact instructor or department for details.	

ARHU489 **Advanced Internship Practicum in ARHU**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

Prerequisite: Permission of the College of Arts and Humanities.

0101	Paula Nadler	Seats (Total: 2)
	Contact instructor or department for details.	

ARHU786 **Leadership and Professional Development Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular

Prerequisite: Must have completed one semester of full-time graduate study; and permission of ARHU-College of Arts & Humanities.

Professional development for graduate students interested in careers in non-academic organizations and in administrative positions in academic institutions. See department graduate program director for internship guidelines and applicability to graduate program requirements.

Contact department for information to register for this course.

ARMY Army Fall 2015

ARMY106 **Basic Military Science I**

Credits: 3 Grading Method: Regular

Restriction: Students must meet Officer candidate criteria to participate in field training. Repeatable to 3 credits.

Introduction to the personal challenges and competencies that are critical for effective leadership and communication. Develops knowledge and competency in physical fitness through rigorous training and experiential leadership education through leadership laboratories.

0101	Terrence McCall	Seats (Total: 40)	
	F 1:00pm - 1:50pm	COL 0113	
	Th 4:00pm - 6:00pm	COL 0100	Lab
	MWTh 6:30am - 7:30am	COL 0100	Lab
0102	Terrence McCall	Seats (Total: 40)	
	Tu 9:00am - 9:50am	COL 0113	
	Th 4:00pm - 6:00pm	COL 0100	Lab
	MWTh 6:30am - 7:30am	COL 0100	Lab

ARMY119 **ARMY ROTC INDEPENDENT STUDY**

(Perm req)

Credits: 1 Grading Method: Regular

Exploration of the Army Leadership Model through group discussion, leadership exercises and research.

Contact department for information to register for this course.

ARMY201 **Army Leadership Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher.

This course is an intensive examination of the Army Leadership Model in practice. The model is compared to leadership styles and techniques from government and industry and the comparative effectiveness of each. Students form their own personal leadership styles.

0101	Timothy Stephenson	Seats (Total: 30)	
	W 2:00pm - 3:50pm	COL 0113	
	Th 4:00pm - 6:00pm	COL 0113	Lab
	MWTh 6:30am - 7:30am	COL 0113	Lab
0102	Terrence McCall	Seats (Total: 30)	
	Th 12:30pm - 2:20pm	COL 0113	
	Th 4:00pm - 6:00pm	COL 0113	Lab
	MWTh 6:30am - 7:30am	COL 0113	Lab

ARMY301 **Advanced Military Leadership I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of UGST-Army ROTC. Restriction: Junior standing or higher.

Reinforces understanding and application of Army leadership strategies, critical decision making methodologies, physical and mental fitness excellence. Includes a laboratory period in applied leadership, common military tasks and physical fitness.

0101	Terrence McCall	Seats (Total: 40)	
	Tu 1:00pm - 3:45pm	COL 0113	
	Th 4:00pm - 6:00pm	COL 0102	Lab
	MWTh 6:30am - 7:30am	COL 0113	Lab

ARMY401 **Advanced Military Leadership III**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of UGST-Army ROTC. Restriction: Senior standing.

Introduces contracted students to the study of Army structure, practice and processes exercised by Army Commanders and Staff in completing personnel, logistics, training and combat operations. Includes a laboratory in applied leadership skills and two field exercises.

0101	Larry Rentz	Seats (Total: 30)	
	MW 1:00pm - 2:30pm	COL 0100	
	Th 4:00pm - 6:00pm	COL 0101	Lab
	MWTh 6:30am - 7:30am	COL 0113	Lab

ARSC Air Science Fall 2015

ARSC059 **Air Force Officer Lab**

Credits: 1 Grading Method: Sat-Fail

Offers Air Force ROTC cadet officer's practical experience in military leadership, management, organization, and customs. May include visits to military installations, weekend laboratories, and flight orientation.

Restriction: Must be an AFROTC cadet. Repeatable to 10 credits if content differs. Formerly: ARSC159. Additional information: This course does not carry any credit toward any degree at the University.

0101	Stephen Surjue Th 7:00am - 8:50am	Seats (Total: 200) COL 0101	 Lab

ARSC100 **The USAF Today I**

Credits: 1 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059.

Freshman course for AFROTC cadets. Introduces students to the United States Air Force and encourages participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

An elective but required for freshmen desiring the four-year AFROTC program.

0101	Amanda Revisky Tu 9:00am - 9:50am	Seats (Total: 27) JMZ 0122
0102	Amanda Revisky Th 9:00am - 9:50am	Seats (Total: 102) ASY 2203

ARSC200 **The Development of Air Power I**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: AFROTC cadets must also register for ARSC059.

Sophomore course for AFROTC cadets. Study of factors contributing to th development of air power from its earliest beginnings through two world wars; the evolution of air power concepts and doctrine; introductory leadership; and assessment of communicative skills.

An elective, but required for sophomores in the four-year AFROTC program. Military cadets must also enroll in ARSC 159.

0101	Evan McCauley Th 10:00am - 10:50am	Seats (Total: 55) COL 0101
0103	Evan McCauley Tu 8:00am - 8:50am	Seats (Total: 27) COL 0101

ARSC300 **Management and Leadership I**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Junior standing or higher.

The study of leadership and management fundamentals, professional knowledge, Air Force doctrine, and written and oral communication skills. Case studies are used to examine leadership and management situations. This course will satisfy credit toward a minor in military studies.

0101	Stephen Surjue Th 9:00am - 12:00pm	Seats (Total: 20) JMZ 0120
0201	Stephen Surjue TuTh 12:30pm - 2:00pm	Seats (Total: 20) COL 2126

ARSC400 **National Security Forces in Contemporary American Society I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of UGST-AFROTC-Air Science; or (ARSC300 or ARSC301). Corequisite: ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Senior standing.

Study of American national security policy and processes to include information and implementation, impact of major national and international actors, and development of major policy issues. This course will satisfy credit towards a minor in military studies.

0101	David Morrissey Th 9:00am - 12:00pm	Seats (Total: 18) COL 0113

0201	David Morrissey TuTh 2:00pm - 3:30pm	Seats (Total: 18) JMZ 2117	

ARTH Art History & Archaeology Fall 2015

ARTH169A **Special Topics in Study Abroad I; Roman Archaeology On-Site**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169B **Special Topics in Study Abroad I; Arts of Modernity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169I **Special Topics in Study Abroad I; Art of Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH200 **Art and Society in Ancient and Medieval Europe and the Mediterranean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU, DVUP

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

0101	Maryl Gensheimer TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3207	 Discussion
0102	Maryl Gensheimer TuTh 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3207	 Discussion

0103	Maryl Gensheimer TuTh 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0104	Maryl Gensheimer TuTh 11:00am - 11:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0105	Maryl Gensheimer TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0106	Maryl Gensheimer TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

0101	Steven Mansbach MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0102	Steven Mansbach MW 9:00am - 9:50am M 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion
0103	Steven Mansbach MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0105	Steven Mansbach MW 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion

FC01	Margaret Harrington MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) ASY 2309	

ARTH255 **Art and Society in the Modern American World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

Explores the origins and evolution of art in the modern American world, from the late colonial era to the present, comparing major artistic movements and their historical contexts. Considers the diversity of art across Latin America and the United States, and the ways in which artworks mediate social, ethnic, political, and national identities.

0101	Abigail McEwen MW 10:00am - 10:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0102	Abigail McEwen MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0104	Abigail McEwen MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion
0105	Abigail McEwen MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion

ARTH269P **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH275 **Art and Society in Africa**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

A comparative study of art and material culture from various regions of the African continent. Looking across ethnic and national boundaries, considers the many relevant political, social, and religious contexts.

0102	Renee Ater MW 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	 Discussion
0104	Renee Ater MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3219	 Discussion

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ARTH305 **Archaeological Methods and Practice**

Credits: 3 | Grading Method: Regular

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	Jorge Bravo MW 11:00am - 12:15pm	Seats (Total: 20) LEF 1201	

ARTH321 **Sixteenth-Century Northern European Painting**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Painting in France, Germany, England, and the Low Countries during the Renaissance and Reformation.

0101	Louise Martinez TuTh 9:30am - 10:45am	Seats (Total: 30) ASY 3215	

ARTH335 **Seventeenth-Century Art in the Netherlands**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Painting, sculpture and architecture in seventeenth-century Netherlands

0101	Aneta Georgievska-Shine	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	ASY 3211

ARTH345 **Nineteenth-Century European Art to 1850**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major trends from Neo-Classicism to Romanticism through an interdisciplinary perspective with an emphasis on historical context.

0101	June Hargrove	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	ASY 3215

ARTH351 **Art Since 1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTH201 or ARTH350.

Visual art since 1945, with an emphasis on North America and Europe.

0101	Joshua Shannon	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	ASY 3211

ARTH359I **Film as Art; Gilliam and Cronenberg: The Existential Individual in an Absurd World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

0101	Greg Metcalf	Seats (Total: 30)
	W 3:00pm - 6:00pm	HBK 0302J

ARTH360 **History of American Art to 1876**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Painting, sculpture, architecture, and decorative arts in North America from the colonial period to 1876.

0101	Greg Metcalf	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	ASY 3215

ARTH369G **Special Topics in Study Abroad III; Art Gallery Management**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369P **Special Topics in Study Abroad III; History and Workshop of Latin America Photography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369Q **Special Topics in Study Abroad III; Patrons and Artists in Baroque Italy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH370 **Latin American Art and Archaeology before 1500**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pre-Hispanic painting, sculpture, and architecture, with a focus on the major archaeological monuments of Mexico.

0101	Beryl Bland	Seats (Total: 30)
	W 2:00pm - 4:30pm	ASY 3215

ARTH386 **Experiential Learning**

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTH389D **Special Topics in Art History and Archaeology; Demons, Ghosts and Monsters in Japanese Art**

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

This course will focus on artistic representations of ghosts, demons and monsters as liminal entities in-between worlds and ontological spaces, and consider how these visual imaginations challenged, blurred, and distorted traditional categories of understanding.

0101	Yui Suzuki	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	ASY 3215

ARTH389F **Special Topics in Art History and Archaeology; Africa and the Photographic Lens**

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

This seminar explores lens-based projects in African cities ranging from the 1850s to the present-day. We will consider how photography, film, and transmedia works relate to complex social, aesthetic, and philosophical dimensions.

0101	Erin Haney	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	ASY 3211

ARTH389G **Special Topics in Art History and Archaeology; Symbols and Symbolic Language**

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

This course proceeds from a review of the major theories of symbolic language and methods of symbolic interpretation to a representative survey of global cultural products that incorporate symbolic elements, ranging from ancient Egyptian through contemporary art.

0101	Anthony Colantuono	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ASY 4213A

ARTH389Z **Special Topics in Art History and Archaeology; Jewish Art In The 20th Century**

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH484 **Modern Chinese Film and Visual Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as: FILM426. Credit only granted for: ARTH484; ARTH489F in F2012, F2011, F2008, or S2009; or ARTH488F in S2010, S2008, or F2009 or FILM426. Formerly: ARTH489F in F2012, F2011, F2008, or S2009; or ARTH488F in S2010, S2008, or F2009.

Modern Chinese culture, society, and history studied through examples of art, film, and visual culture.

0101	Jason Kuo	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	HBK 0302J

ARTH488C **Colloquium in Art History; Contemporary Chinese and Chinese-American Cinema on Women**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

Also offered as FILM429C and WMST498J. Credit granted for ARTH488C, FILM429C, or WMST498J. Through a transnational study of major filmmakers from mainland China to Hong Kong, Taiwan, and the Chinese diaspora, the course is intended to consider issues of female cinematic authorship, gender and sexuality in cinematic representation, power and knowledge, negotiations of local and global cultural politics.

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

ARTH488O **Colloquium in Art History; Looking for Love in Renaissance Places**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

0101	Aneta Georgievska-Shine	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	ASY 3217

ARTH489H **Special Topics in Art History; Art in London (Honors)**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH489Z **Special Topics in Art History; Art in London**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH498 **Directed Studies in Art History I**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH499 **Honors Thesis**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ARTH619A **Studies in Italian Renaissance Art; Leonardo's Universe**

Credits: 3 Grading Method: Regular, Audit

0101	Meredith Gill M 3:00pm - 5:40pm	Seats (Total: 6) ASY 4213A

ARTH689A **Selected Topics in Art History; Studies in Materials and Materiality: Support, Ground, Paint, Varnish, Objects**

Credits: 1-3 Grading Method: Regular, Audit

0101	Renee Ater Tu 12:00pm - 2:40pm	Seats (Total: 6) ASY 4304

ARTH692 **Methods of Art History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Methods of research and criticism applied to typical art-historical problems; bibliography and other research tools.

For all non-Art History and Archaeology majors, permission of the department is required.

0101	Anthony Colantuono Th 12:00pm - 2:40pm	Seats (Total: 6) ASY 4304

ARTH708B **Seminar in Ancient Art and Archaeology; Monuments and Topography of the City of Rome**

Credits: 3 Grading Method: Regular, Audit

0101	Maryl Gensheimer	Seats (Total: 6)
	Tu 3:00pm - 5:40pm	ASY 4304

ARTH749B **Seminar in Nineteenth-Century European Art; The Visual Culture of War from the Thirty Years' War to the Great War**

Credits: 3 Grading Method: Regular, Audit

0101	June Hargrove	Seats (Total: 6)
	Th 3:00pm - 5:40pm	ASY 4304

ARTH759D **Seminar in Twentieth-Century Art; Abstraction and Utopia**

Credits: 3 Grading Method: Regular, Audit

0101	Steven Mansbach	Seats (Total: 6)
	M 12:00pm - 2:40pm	ASY 4304

ARTH768B **Seminar in Latin American Art and Archaeology; Critical Approaches to Latin American Art in the 20th Century**

Credits: 3 Grading Method: Regular, Audit

0101	Abigail McEwen	Seats (Total: 6)
	W 3:00pm - 5:40pm	ASY 4304

ARTH798 **Directed Graduate Studies in Art History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ARTH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ARTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ARTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ARTT Art Studio Fall 2015

ARTT100 **Two-Dimensional Design Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Principles and elements of two-dimensional design. Introduction to visual communication.

Students must pay a $40.00 laboratory studio fee.

0101	James Thorpe TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0201	James Thorpe TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0301	James Thorpe TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2318	Lab
0401	James Thorpe TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2318	Lab
0501	Wendy Jacobs MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0601	Wendy Jacobs MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2318	Lab
0701	Wendy Jacobs MW 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab

0801	Wendy Jacobs MW 3:00pm - 5:30pm	Seats (Total: 18) ASY 2318	Lab

ARTT110 **Elements of Drawing I**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 laboratory studio fee.

0101	Robert Hackett MW 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
0201	Robert Hackett MW 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab
0301	Aydin Hamami TuTh 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0401	Aydin Hamami TuTh 3:30pm - 6:00pm	Seats (Total: 18) ASY 2321	Lab
0501	Leslie Berns TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
0701	Lillian Hoover MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2321	Lab
0801	Lillian Hoover MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0901	Jowita Wyszomirska TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
1001	Jowita Wyszomirska TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab

1101	Tyler Hildebrand MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab
1201	Tyler Hildebrand MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
FC01	Leslie Berns MW 6:00pm - 8:30pm *Restricted to students in Freshmen Connenction.*	Seats (Total: 18) ASY 2315	

ARTT110S **Elements of Drawing I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Restricted to College Park Scholars - Arts. Students must pay a $40.00 laboratory studio fee.

0601	Leslie Berns TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab

ARTT150 **Introduction to Art Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Fundamental concepts of global, philosophic, and critical art theory examined through various historic and contemporary texts, and the analysis of works of art.

0101	Richard Klank MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 25) ASY 2309 ASY 3215	Discussion
0102	Richard Klank MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
0103	Richard Klank MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) ASY 2309 ASY 3221	Discussion

0201	Rex Weil TuTh 3:30pm - 4:20pm Tu 2:00pm - 2:50pm	Seats (Total: 25) ASY 2309 KEY 0119	 Discussion
0202	Rex Weil TuTh 3:30pm - 4:20pm Th 2:30pm - 3:20pm	Seats (Total: 25) ASY 2309 PLS 1111	 Discussion
0203	Rex Weil TuTh 3:30pm - 4:20pm Th 12:30pm - 1:20pm	Seats (Total: 25) ASY 2309 EDU 2101	 Discussion
FC01	Rex Weil TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ASY 3211	

ARTT200 **Three-Dimensional Art Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110.

Fundamental concepts of three-dimensional form and space examined through the manipulation and organization of various materials.

Students must pay a $40.00 laboratory studio fee.

0101	Zac Benson TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 1311	 Lab
0201	Foon Sham TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 1311	 Lab
0301	Steven Jones MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 1311	 Lab

ARTT210 **Elements of Drawing II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 laboratory studio fee.

0101	Matthew McLaughlin TuTh 12:30pm - 3:00pm	Seats (Total: 16) ASY 2315	 Lab
0201	Emily Conover MW 3:00pm - 5:30pm	Seats (Total: 16) ASY 2315	 Lab
0301	Lillian Hoover MW 12:30pm - 3:00pm	Seats (Total: 16) ASY 2315	 Lab

ARTT255 **Introduction to Digital Art and Design Processes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a $40.00 laboratory studio fee.

0101	Narendra Ratnapala MW 9:00am - 11:30am	Seats (Total: 24) CSS 1410	 Lab
0201	Narendra Ratnapala TuTh 3:30pm - 6:00pm	Seats (Total: 24) CSS 1410	 Lab
0301	Shannon Collis MW 1:00pm - 3:30pm	Seats (Total: 24) CSS 1410	 Lab

ARTT269R **Special Topics in Study Abroad II; Art of Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT320 **Elements of Painting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes of oil and/or acrylic painting.

Students must pay a $40.00 laboratory studio fee.

0101	Patrick Craig TuTh 12:30pm - 3:00pm *Emphasizes acrlic paint.*	Seats (Total: 18) ASY 3312	Lab
0201	Richard Klank MW 9:00am - 11:30am	Seats (Total: 13) ASY 3322	Lab
0301	Leslie Berns TuTh 3:00pm - 5:30pm	Seats (Total: 18) ASY 3312	Lab

ARTT330 **Elements of Sculpture: Metal Casting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a $40.00 laboratory studio fee.

0101	Steven Jones MW 3:00pm - 5:30pm	Seats (Total: 12) ASY 1310	Lab

ARTT330H **Elements of Sculpture: Metal Casting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a $40.00 laboratory studio fee. This course is restricted to departmental honors students only.

0101	Steven Jones MW 3:00pm - 5:30pm	Seats (Total: 2) ASY 1310	Lab

ARTT331 **Elements of Sculpture: Steel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to steel fabrication; torch cutting, welding, hot forging, and finishing.

Students must pay a $40.00 laboratory studio fee.

0101	Dane Winkler TuTh 12:30pm - 3:00pm	Seats (Total: 12) ASY 1314	Lab

ARTT333 **Elements of Sculpture: Wood and Mixed Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 12) ASY 1311	Lab

ARTT333H **Elements of Sculpture: Wood and Mixed Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

This course is restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 2) ASY 1311	Lab

ARTT340 **Elements of Printmaking: Intaglio**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to etching, aquatint, and drypoint.

Students must pay a $40.00 laboratory studio fee.

0101	Robert Hackett	Seats (Total: 12)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT340H **Elements of Printmaking: Intaglio**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to etching, aquatint, and drypoint.

Student's must pay a $40.00 laboratory studio fee. This course is restricted to departmental honors students only.

0101	Margo Humphrey	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT341 **Elements of Printmaking: Woodcut and Relief**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

There is a $40.00 lab fee for this course.

0101	Matthew McLaughlin	Seats (Total: 12)	
	MW 4:00pm - 6:30pm	ASY 1317	Lab

ARTT341H **Elements of Printmaking: Woodcut and Relief**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

There is a $40.00 lab fee for this course. This course is restricted to departmental honors students only.

0101	Shannon Collis	Seats (Total: 2)	
	MW 4:00pm - 6:30pm	ASY 3217	

ARTT343 **Elements of Printmaking: Screen Printing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 8)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

ARTT343H **Elements of Printmaking: Screen Printing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

This course is restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom	Seats (Total: 2)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

ARTT344 **Elements of Printmaking: Lithography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to drawing, preparing, and printing images on lithograph stones or plates.

Students must pay a $40.00 laboratory studio fee.

0101	Matthew McLaughlin	Seats (Total: 12)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT344H **Elements of Printmaking: Lithography**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to drawing, preparing, and printing images on lithograph stones or plates.

Students must pay a $40.00 laboratory studio fee.

0101	Margo Humphrey	Seats (Total: 2)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT353 **Elements of Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to black-and-white photography. Basic technical and aesthetic vocabulary, camera mechanics and darkroom techniques. Introduction to the photographic message and meaning in both fine art and design concept.

Students must pay a $40.00 laboratory studio fee. SLR film camera required.

Contact department for information to register for this course.

ARTT355 **Intermediate Graphic Design Principles**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must be admitted to the Graphic Design Concentration (Track 3). Credit only granted for: ARTT350 or ARTT355. Formerly: ARTT350.

Investigation of basic concepts, history, techniques, and materials use by professional graphic designers, focusing on typography. Explores various aspects of design related to typography through examination and production of many types of finished work.

Students must pay $40.00 laboratory studio fee.

0101	Liese Zahabi	Seats (Total: 20)	
	TuTh 9:00am - 11:30am	ASY 2322	Lab

ARTT356 **Graphic Design Processes**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must have been admitted to Graphic Design Concentration (Track 3). Credit only granted for: ARTT351 or ARTT356. Formerly: ARTT351.

Explores computer graphics and visual communcation principles in a time-based context. Examination of fundamental design principles through digital projects that involve photo manipulation, digital illustration, layout, animation, and web design.

Students must pay $40.00 laboratory studio fee.

0101	Mira Azarm	Seats (Total: 20)	
	MW 3:00pm - 5:30pm	ASY 2322	Lab

ARTT369P **Special Topics in Study Abroad III; Spain Seen by Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT370 **Elements of Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; or permission of ARHU-Art department.

Exploration of image creation and manipulation, interactivity, and linkages between digital audio and video. Emphasis on issues in contemporary digital art.

Students must pay $40.00 laboratory studio fee.

0101	Brandon Morse	Seats (Total: 14)	
	TuTh 12:30pm - 3:00pm	ASY 3311E	Lab

ARTT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT389 **Department of Art Undergraduate Teaching Assistantship**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized assistantship in the teaching of a specified department course offering. Must have previously received an "A" grade for the class to be assisting.

Contact department for information to register for this course.

ARTT399 **Department of Art Research Assistantship**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized experiential learning developed in relation to art-related research issues.

Contact department for information to register for this course.

ARTT409K **Study Abroad Special Topics IV; New Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT418A **Advanced Drawing Studio; Experimental Techniques in Drawing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT150, ARTT200, and ARTT210; plus one 300-level studio course; or permission of department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

0101	Robert Hackett	Seats (Total: 16)	
	MW 3:00pm - 5:30pm	ASY 2314	Lab

ARTT418B **Advanced Drawing Studio; A Contemporary Approach**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT150, ARTT200, and ARTT210; plus one 300-level studio course; or permission of department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

0101	Leslie Berns TuTh 12:30pm - 3:00pm	Seats (Total: 16) ASY 2314	 Lab
0201	Patrick Craig TuTh 3:00pm - 5:30pm	Seats (Total: 16) ASY 2314	 Lab

ARTT418H **Advanced Drawing Studio; Honors Drawing: A Contemporary Approach**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0201	Robert Hackett MW 12:30pm - 3:00pm	Seats (Total: 2) ASY 2314	 Lab
0301	Patrick Craig TuTh 3:00pm - 5:30pm	Seats (Total: 2) ASY 2314	 Lab

ARTT428 **Advanced Painting Studio; Painting**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT320 or permission of the department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions.

0101	William Richardson TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 3318	Lab
0201	Emily Conover MW 12:30pm - 3:00pm *Emphasizes acrylic paint.*	Seats (Total: 18) ASY 3316	Lab
0301	Richard Klank MW 9:00am - 11:30am	Seats (Total: 8) ASY 3322	Lab

ARTT428H **Advanced Painting Studio; Honors Painting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	William Richardson TuTh 12:30pm - 3:00pm	Seats (Total: 2) ASY 3318	Lab
0301	Richard Klank MW 9:00am - 11:30am	Seats (Total: 2) ASY 3322	Lab

ARTT428X **Advanced Painting Studio; Advanced Painting Studio**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Contact department for information to register for this course.

ARTT438C **Advanced Sculpture Studio; Steel Sculpture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT331 or permission of instructor. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Dane Winkler TuTh 12:30pm - 3:00pm	Seats (Total: 6) ASY 1314	 Lab

ARTT438D **Advanced Sculpture Studio; Wood and Mixed Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 4) ASY 1311

ARTT438H **Advanced Sculpture Studio; Honors Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

0101	Foon Sham TuTh 3:00pm - 5:30pm	Seats (Total: 2) ASY 1311
0201	Instructor: TBA MW 3:00pm - 5:30pm	Seats (Total: 2) ASY 1314
0301	John Ruppert MW 12:30pm - 3:00pm	Seats (Total: 2) ASY 1314

ARTT438I **Advanced Sculpture Studio; Metal Casting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT330 or permission of instructor. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

0101	Steven Jones	Seats (Total: 4)	
	MW 3:00pm - 5:30pm	ASY 1310	Lab

ARTT448A **Advanced Printmaking Studio; Intaglio**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media. Students must pay a $40.00 laboratory studio fee.

0101	Robert Hackett	Seats (Total: 4)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT448B **Advanced Printmaking Studio; Lithography**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media. Students must pay a $40.00 laboratory studio fee.

0101	Matthew McLaughlin	Seats (Total: 6)	
	MW 9:00am - 11:30am	ASY 1317	Lab

ARTT448E **Advanced Printmaking Studio; Screen Printing**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media. Students must pay a $40.00 laboratory studio fee.

0101	Justin Strom TuTh 3:00pm - 5:30pm	Seats (Total: 12) ASY 1317	 Lab

ARTT448F **Advanced Printmaking Studio; Monoprints and Mixed Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisites: One 300-level printmaking course or permission of the department. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media. Students must pay a $40.00 laboratory studio fee.

0101	Matthew McLaughlin MW 4:00pm - 6:30pm	Seats (Total: 6) ASY 1317

ARTT448H **Advanced Printmaking Studio; Honors Printmaking Studio**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: 300-level printmaking course and admission to Department Honors Program. Permission of Department required. Students must pay a $40.00 studio lab fee.

0101	Justin Strom TuTh 3:00pm - 5:30pm	Seats (Total: 4) ASY 1317	 Lab
0301	Margo Humphrey MW 9:00am - 11:30am	Seats (Total: 2) ASY 1317	 Lab
0401	Margo Humphrey MW 12:30pm - 3:00pm	Seats (Total: 2) ASY 1317	 Lab

0501	Shannon Collis	Seats (Total: 2)	
	MW 4:00pm - 6:30pm	ASY 1317	Lab

ARTT454 **Advanced Graphic Design Principles: Design in Society**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT355 and ARTT356.

Focus on social responsibility and community activism. History and theory of propaganda and advocacy-based design. Students explore current design practices, work individually, and collaborate in teams with non-profits or other clients with community-based or socio-cultural agendas. Research and writing-intensive course.

$40 laboratory studio fee.

0101	Audra Buck-Coleman	Seats (Total: 20)	
	TuTh 12:30pm - 3:00pm	ASY 2322	Lab

ARTT457 **Advanced Interactive Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT357.

Advanced concepts and technieques of interactive design and interactive software. Examination of corporate, client-based, and public service-based interactive graphic design. Emphasis on web-based interactive design structures.

$40 laboratory studio fee.

0101	Liese Zahabi	Seats (Total: 20)	
	TuTh 5:00pm - 7:30pm	ASY 2322	Lab

ARTT460 **Seminar in Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing.

Exploration of relationship between content and processes of art in a contemporary multi-cultural context.

Contact department for information to register for this course.

ARTT468A **Seminar on the Interrelationship Between Art and Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

Contact department for information to register for this course.

ARTT468W **Seminar on the Interrelationship Between Art and Art Theory; History and Workshop of Latin America Photography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The relationship between a student's work and the theoretical context of contemporary art.

Contact department for information to register for this course.

ARTT479A **Advanced Digital Media Studio; Code and Form**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

There is a $40.00 studio lab fee. Advanced level course in Digital Media emphasizing contemporary practices and theories in the area of Digital Fabrication. 3-D modeling, 3-D printing and related digital fabrication techniques are covered.

0101	Brandon Morse	Seats (Total: 14)	
	TuTh 3:00pm - 5:30pm	ASY 3311E	Lab

ARTT479H **Advanced Digital Media Studio; Honors Code and Form**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

This course is restricted to departmental honors students only. There is a $40.00 studio lab fee. Advanced level course in Digital Media emphasizing contemporary practices and theories in the area of Digital Fabrication. 3-D modeling, 3-D printing and related digital fabrication techniques are covered.

0101	Brandon Morse	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 3311E	Lab

ARTT480H **Honors Seminar**

(Perm req)

Credits: 3 Grading Method: Regular

Team-taught seminar focusing on relationship between student's work and the theoretical context of contemporary art.

Students must pay $40.00 laboratory fee.

0101	Justin Strom	Seats (Total: 7)	
	F 10:00am - 1:30pm	Location: TBA	Lab

ARTT489C **Advanced Special Topics in Art; Markets and Collecting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

0101	Rex Weil	Seats (Total: 15)
	Th 11:30am - 2:00pm	ARC 1123

ARTT489I **Advanced Special Topics in Art; Digital Imaging**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

Prerequisite: ARTT354. Students must pay a $40.00 laboratory studio fee.

Contact department for information to register for this course.

ARTT489R **Advanced Special Topics in Art; New Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

Contact department for information to register for this course.

ARTT489W **Advanced Special Topics in Art; Contemporary Issues in Art and Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

0101	Hasan Elahi	Seats (Total: 15)	
	M 6:00pm - 8:30pm	MMH 0401	Discussion

ARTT498A **Directed Studies in Studio Art**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498B **Directed Studies in Studio Art**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498H **Directed Studies in Studio Art; Honors Thesis**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Restricted to departmental honors students only. Prerequisite: permission of department. Students must pay a $40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498I **Directed Studies in Studio Art; Animation, Editing, and Special Effects**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Contact department for information to register for this course.

ARTT618 **Drawing; Drawing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in drawing for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT628 **Painting; Painting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Graduate painting for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT638 **Sculpture; Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in sculpture for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT648 **Printmaking; Printmaking**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in printmaking for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698C **Directed Graduate Studies in Studio Art; Graduate Teaching Practicum**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT718 **Drawing; Drawing**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Independent studies in drawing for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT728 **Painting; Painting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in painting for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT738 **Sculpture; Sculpture**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in sculpture for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT748 **Printmaking; Printmaking**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Independent studies in printmaking for advanced special students.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT768 **Graduate Colloquium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Examines various aspects of art, art theory and criticism in a contemporary and multi-cultural context. Relates student work to this context.

Students must pay a $60.00 laboratory studio fee.

0101	Hasan Elahi	Seats (Total: 20)
	Tu 6:30pm - 9:30pm	Location: TBA

ARTT798A **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT798B **Directed Graduate Studies in Studio Art**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Independent graduate studies.

Students must pay a $60.00 studio lab fee.

Contact department for information to register for this course.

ARTT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR Astronomy Fall 2015

ASTR100 **Introduction to Astronomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

0101	Suvi Gezari TuTh 9:30am - 10:45am M 1:00pm - 1:50pm	Seats (Total: 40) PHY 1412 CSS 2400	 Discussion
0102	Suvi Gezari TuTh 9:30am - 10:45am M 2:00pm - 2:50pm	Seats (Total: 40) PHY 1412 CSS 2400	 Discussion
0103	Suvi Gezari TuTh 9:30am - 10:45am M 3:00pm - 3:50pm	Seats (Total: 40) PHY 1412 CSS 2400	 Discussion
0104	Suvi Gezari TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 40) PHY 1412 CSS 2400	 Discussion

0105	Suvi Gezari TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 40) PHY 1412 CSS 2400	 Discussion
0106	Suvi Gezari TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 40) PHY 1412 CSS 2400	 Discussion
FC01	John Vanlandingham TuTh 4:30pm - 5:45pm F 10:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 26) CSS 2400 CSS 2428	 Discussion

ASTR101 **General Astronomy**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Discussion sections and lab sections do not meet the first week of classes. Attend lecture before coming to discussion or lab sections.

0101	Douglas Hamilton TuTh 11:00am - 12:15pm Tu 5:30pm - 7:30pm Tu 3:30pm - 4:20pm	Seats (Total: 20) PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0102	Douglas Hamilton TuTh 11:00am - 12:15pm W 8:30am - 10:30am Tu 3:30pm - 4:20pm	Seats (Total: 20) PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0103	Douglas Hamilton TuTh 11:00am - 12:15pm W 11:00am - 1:00pm W 10:00am - 10:50am	Seats (Total: 20) PHY 1412 CSS 1109 CSS 2400	 Lab Discussion

0104	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 3:30pm - 5:30pm W 10:00am - 10:50am	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0105	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm W 1:00pm - 3:00pm W 11:00am - 11:50am	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0106	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 8:30am - 10:30am W 11:00am - 11:50am	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0107	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm W 6:00pm - 8:00pm W 12:00pm - 12:50pm	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0108	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm Th 6:00pm - 8:00pm W 12:00pm - 12:50pm	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0109	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm F 10:00am - 12:00pm W 1:00pm - 1:50pm	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
0110	Douglas Hamilton	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm F 1:00pm - 3:00pm W 1:00pm - 1:50pm	PHY 1412 CSS 1109 CSS 2400	 Lab Discussion
FC01	John Vanlandingham	Seats (Total: 15)	
	TuTh 4:30pm - 5:45pm M 6:00pm - 8:00pm F 10:00am - 10:50am	CSS 2400 CSS 1109 CSS 2428	 Lab Discussion
	Restricted to students in Freshmen Connection.		

ASTR120 **Introductory Astrophysics - Solar System**

Credits: 3 | Grading Method: Regular | CORE: PS | General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH115. Restriction: Must not have completed ASTR101 or ASTR100. Credit only granted for: ASTR100, ASTR101, or ASTR120.

For students majoring in astronomy or with a strong interest in science Topics include development of astronomy, planetary orbits, electromagnetic radiation, telescopes as well as constituents and origin of the solar system (planets, satellites, comets, asteroids, meteoroids, etc.).

0101	Derek Richardson	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	CSS 2428	
	F 1:00pm - 1:50pm	CSS 2428	Discussion

ASTR220 **Collisions in Space - The Threat of Asteroid Impacts**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Restriction: Must not be in Astronomy program. Additional information: Course is open to Astronomy and Planetary Sciences minors.

Appropriate for non-science majors. Worried? Can't sleep? Collisions in Space will evaluate the threat of asteroid impacts with the Earth using knowledge of asteroid characteristics and orbits. The merits of possible defense plans will be discussed, as well as the budgetary and political concerns associated with implementing any such plan.

0101	Melissa Hayes-Gehrke	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	CSS 2400	
	M 11:00am - 11:50am	CSS 2428	Discussion
0102	Melissa Hayes-Gehrke	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	CSS 2400	
	M 12:00pm - 12:50pm	CSS 2428	Discussion

ASTR230 **The Science and Fiction of Planetary Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Prerequisite: Must have math eligibility of MATH115 or higher; or MATH113.

Have you ever wondered if humans will ever terraform Mars or Europa so we could live there without a spacesuit? Has it ever crossed your mind how lucky you are that you live on a water-rich planet with an oxygen-rich atmosphere? Have you ever suspected novelists and scriptwriters of creating ridiculous planets that violate scientific laws? Does the fate of our planet's thin biosphere keep you up at night? How common is life in the Universe? These are difficult questions, but armed with the right information, you can answer all of them. The Science and Fiction of Planetary Systems will help you develop a deeper understanding of why planets are the way they are. Along the way, you'll see examples of mistakes made in classic science fiction movies, novels and short stories and get the chance to invent your own plausible planets!

0101	Alan Peel MWF 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 30) PHY 1410 BPS 1232	Discussion
0102	Alan Peel MWF 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 30) PHY 1410 BPS 1232	Discussion
0103	Alan Peel MWF 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 30) PHY 1410 BPS 1232	Discussion

ASTR288 **Special Projects in Astronomy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

A faculty sponsor must be found by the students prior to enrollment.

Contact department for information to register for this course.

ASTR288C **Special Projects in Astronomy; Astronomy Research Techniques**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

0101	Sylvain Guiriec M 3:30pm - 5:15pm	Seats (Total: 10) CSS 0201	

ASTR300 **Stars and Stellar Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. Study of stars-types, properties, evolution, and distribution in space; supernovae, pulsars, and black holes.

0101	Grace Deming TuTh 12:30pm - 1:45pm	Seats (Total: 50) CSS 2428

ASTR310 **Observational Astronomy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: ASTR121; and (PHYS171 or PHYS161). Or permission of CMNS-Astronomy department. Restriction: Must be in Astronomy program.

Introduction to current optical observational techniques, with brief coverage of infrared, ultraviolet, and x-ray techniques. Statistics, spherical trigonometry time, catalogs, geometrical and physical optics, telescopes, and optical instruments. Effects of the atmosphere. Practical work at the observatory using a CCD camera. Some nighttime observing sessions.

0101	Andrew Harris TuTh 2:00pm - 3:15pm	Seats (Total: 20) CSS 2428

ASTR315 **Astronomy in Practice**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL, DSSP

Restriction: Must not be in Astronomy program. Additional information: Appropriate for non-science majors.

Students learn astronomy research techniques and contribute significantly to the existing body of astronomical knowledge. Students apply methods and tools such as celestial coordinates, telescopes and CCD cameras, and appropriate analysis software to a specific observational goal. Students produce a work detailing their scientific result which will be submitted for publication in a professional venue. Each semester, the course focuses on a specific astronomical topic or type of object, such as asteroids, extrasolar planets, supernovae in other galaxies, quasars, etc.

0101	Melissa Hayes-Gehrke TuTh 2:00pm - 3:15pm M 9:00am - 11:00am	Seats (Total: 24) CSS 2400 CSS 1220	 Lab
0102	Melissa Hayes-Gehrke TuTh 2:00pm - 3:15pm M 11:00am - 1:00pm	Seats (Total: 24) CSS 2400 CSS 1220	 Lab

ASTR340 **Origin of the Universe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. A study of our progression of knowledge about the universe. Topics include: early cosmological models, geocentric vs. heliocentric theory, curvature of space, Hubble's Law, Big Bang Theory, microwave background radiation, evolution of stars and galaxies, dark matter, active galaxies, quasars and the future of the universe.

0101	Alberto Bolatto TuTh 9:30am - 10:45am	Seats (Total: 60) CSS 2400

ASTR380 **Life in the Universe - Astrobiology**

Credits: 3 Grading Method: Regular, Audit General Education: DSNS

Designed primarily for non-science majors. Study of the astronomical perspective on the conditions for the origin and existence of life in the universe.

0101	Reggie Hudson TuTh 12:30pm - 1:45pm	Seats (Total: 60) CSS 2400

ASTR398B **Special Topics in Astronomy; Black Holes**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course is designed primarily for students not majoring in astronomy and is suitable for nonscience students. It will concentrate study in some limited field in astronomy which will vary from semester to semester. Possible subjects for study are the solar system, extragalactic astronomy and cosmology, the inconstant universe.

Prerequisites: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department. Designed primarily for non-majors. Students are provided with a non-technical introduction to the properties of black holes and the role that they play in the Universe. Topics covered include: escape velocity, Newton's and Einstein's theories of gravity, basic anatomy of a black hole, stellar death and the formation of black holes, active galactic nuclei and quasars, and the influence of black holes on galaxy formation.

0101	Christopher Reynolds	Seats (Total: 60)
	WF 2:00pm - 3:15pm	CSS 2400

ASTR399 **Honors Seminar**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Credit according to work done.

Contact department for information to register for this course.

ASTR430 **The Solar System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ASTR121; and (PHYS271 and PHYS270; or PHYS273). Or permission of CMNS-Astronomy department.

Formation and evolution of the Solar System. Planetary surfaces, interiors, atmospheres, and magnetospheres. Asteroids, comets, planetary satellites, and ring systems. Emphasis on using basic physics to understand observed properties of the Solar System. Intended for students majoring in the physical sciences.

0101	Jessica Sunshine	Seats (Total: 30)
	WF 2:00pm - 3:15pm	CSS 2428

ASTR498 **Special Problems in Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

ASTR498X **Special Problems in Astronomy; Astrophysics of Exoplanets**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Prerequisites: ASTR121; {PHYS270 and PHYS271} or PHYS273; or permission of department. Detection and characterization of extrasolar planets, including the interior and atmospheric composition of hot Jupiters, Mini-Neptunes and Super-Earths. Formation and orbits; results from transits, high-contrast imaging and space missions. The search for other Earths and biosignatures.

0101	Leo Deming	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSS 2428

ASTR601 **Radiative Processes**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department.

Emission, absorption, and scattering of radiation by matter, with astrophysical applications. Thermodynamics and statistical mechanics: LTE, Boltzmann, and Saha equations; radiative transfer; atomic and molecular radiation; plasma radiation and transfer: bremsstrahlung, synchrotron emission, Compton scattering.

0101	Michael Miller	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	CSS 0201

ASTR615 **Computational Astrophysics**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department. Formerly: ASTR688C.

Introduction to computational techniques used in astrophysical research. Topics include modern high performance computer architectures, scientific visualization and data analysis, and detailed descriptions of numerical algorithms for the solution to a wide range of mathematical systems important in astrophysics.

0101	Massimo Ricotti	Seats (Total: 20)
	MW 2:00pm - 3:15pm	CSS 0201

ASTR620 **Galaxies**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of CMNS-Astronomy department.

Galaxy classifications; Milky way: basic data, distribution of stars, gas, dust and relativistic particles, large-scale structure and rotation; Spiral galaxies: stellar dynamics and stability, density waves, star bursts, galactic center; Elliptical galaxies: stellar dynamics, cannabalism; galaxy formation.

0101	RIchard Mushotzky	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSS 0201

ASTR695 **Introduction to Research**

Credits: 1 Grading Method: Sat-Fail

Provides an introduction to research programs in the Department of Astronomy and a forum to explore possible research projects. Aimed at incoming graduate students.

0101	Michael Miller	Seats (Total: 20)
	M 5:00pm - 5:50pm	Location: TBA

ASTR699 **Special Problems in Advanced Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ASTR899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BCHM Biochemistry Fall 2015

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SEF" are restricted to Post-Baccalaureate students who enroll through the Science in the Evening Program in the College of Computer, Mathematical and Natural Sciences. Please note that this class is charged at the regular part-time tuition rate (on a per credit basis), even for full- time students. To register or to learn more about the Science in the Evening program, you must contact the Life Sciences Outreach and Special Programs Office at (301) 405-6892.*

BCHM461 Biochemistry I

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.

First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

0101	Dorothy Beckett TuTh 9:30am - 10:45am	Seats (Total: 95) EGR 1202
0102	Douglas Julin MW 4:00pm - 5:15pm	Seats (Total: 95) HJP 0226
0103	Jason Kahn TuTh 12:30pm - 1:45pm	Seats (Total: 95) CHM 1402

BCHM462 Biochemistry II

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BCHM461. Credit only granted for: BCHM462 or BCHM463.

A continuation of BCHM 461. Metabolic pathways and metabolic regulation energy transduction in biological systems, enzyme catalytic mechanisms.

0101	Douglas Julin TuTh 9:30am - 10:45am	Seats (Total: 110) CHM 1402

BCHM463 Biochemistry of Physiology

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

0101	Bonnie Dixon MWF 11:00am - 11:50am	Seats (Total: 125) CHM 1402
0103	Christopher Capp MWF 12:00pm - 12:50pm	Seats (Total: 125) CHM 1402
SEF1	Erik Lontok M 6:30pm - 9:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 40) MCB 1207
SG91	Ryan Marcheschi MWF 9:30am - 10:20am *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) Location: TBA

BCHM464 **Biochemistry Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for all College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: BCHM465. Restriction: BCHM, CHEM, and Nutritional Sciences majors have first priority, followed by other life science majors.

Biochemical and genetic methods for studying protein function. Site-directed mutagenesis and molecular cloning, protein purification, enzyme activity assays, computer modeling of protein structure.

Students must pay a $40.00 laboratory materials fee.

0101	Christopher Capp Tu 12:30pm - 1:20pm Th 12:30pm - 5:30pm	Seats (Total: 18) CHM 1224 CHM 1119	 Lab
0102	Christopher Capp Tu 12:30pm - 1:20pm W 1:00pm - 6:00pm	Seats (Total: 18) CHM 1224 CHM 1119	 Lab

BCHM465 **Biochemistry III**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: CS

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Recommended: BCHM462.

CORE Capstone (CS) Course. An advanced course in biochemistry. Biochemical approach to cellular information processing. DNA and RNA structure. DNA replication, transcription, and repair. Translation of mRNA to make proteins.

0101	Theodore Dayie TuTh 8:00am - 9:15am	Seats (Total: 80) CHM 1402

BCHM661 **Nucleic Acids I**

Credits: 2 | Grading Method: Regular, Audit

Prerequisite: BSCI410 and BCHM465.

Topics covered: Chemistry and structure of DNA and RNA, from nucleotide to chromatin, chromosomes, and genomes, and some methods for studying, synthesizing, sequencing and manipulating nucleic acids. Rudimentary genomics and bioinformatics. DNA Biology: selected aspects of the biochemistry and regulation of DNA replication, repair, and recombination, and how these processes interact with each other.

0101	Paul Paukstelis **Meets August 31, 2015 - October 17, 2015** TuTh 1:30pm - 3:30pm	Seats (Total: 30) BSB 2118

BCHM662 **Nucleic Acids II**

Credits: 2 | Grading Method: Regular, Audit

Prerequisite: BCHM661.

Topics covered: Interactions between nucleic acids and ligands such as cations, drugs, and especially proteins. Sources of binding affinity and specificity. Selection-amplification methods. Description of several classes of protein-nucleic acids complexes. DNA/RNA catalysis, the origin of life, mobile genetic elements.

0101	Paul Paukstelis	Seats (Total: 30)
	Meets October 18, 2015 - December 13, 2015	
	TuTh 1:30pm - 3:30pm	BSB 2118

BCHM671 **Protein Chemistry and Enzymic Catalysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BCHM461; or students who have taken courses with comparable content may contact the department.

Principles of protein structure, folding, and function, experimental characterization of structure, active sites, enzyme mechanisms and kinetics.

0101	Nicole LaRonde	Seats (Total: 35)
	TuTh 9:30am - 10:50am	BSB 2118

BCHM698 **Literature Seminar in Biochemistry**

Credits: 2 Grading Method: Regular

Students will prepare and present a departmental seminar based on a topic in the current biochemical research literature.

0101	Catherine Cotter	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM699 **Special Problems in Biochemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Open only to non-thesis M.S. degree candidates.

Contact department for information to register for this course.

BCHM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

BCHM889A **Seminar; Biochemistry**

Credits: 1 Grading Method: Regular, Audit

0101	Theodore Dayie Tu 11:00am - 11:50am	Seats (Total: 40) CHM 1224

BCHM889C **Seminar; Allostery in DNA Binding**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BCHM889D **Seminar; Enzymology Recombination**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BCHM889F **Seminar; Antimicrobial Peptides**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BCHM889J **Seminar; Nucleic Acid Structures**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BCHM889M **Seminar; Modern Methods in NMR and Structural Biology**

Credits: 1-3 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 40)

BCHM889P **Seminar; Structure and Reactivity of Biopolymers**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)

BCHM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BCHM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BIOE Bioengineering Fall 2015

BIOE120 **Biology for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Introduction to the functions and interactions of biological systems from a quantitative perspective. Introduction to the modern experimental techniques and methods of data analysis. Roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

Students will be introduced to the functions and interactions of biological systems from a quantitative perspective. They will also be encourage d to solve problems through active inquiry, critical analysis,and creat ivity. Finally, roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

0101	Angela Jones TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 40) KEB 1110 ITV 1100	 Discussion
0102	Angela Jones TuTh 9:30am - 10:45am Th 5:00pm - 5:50pm	Seats (Total: 40) KEB 1110 CSI 3120	 Discussion

0201	William Bentley MW 8:00am - 9:15am Th 2:00pm - 2:50pm	Seats (Total: 39) KEB 1110 JMP 2202	 Discussion
0202	William Bentley MW 8:00am - 9:15am Th 5:00pm - 5:50pm	Seats (Total: 41) KEB 1110 PHY 1204	 Discussion

BIOE121 **Biology for Engineers Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Engineering: Bioengineering program.

This course will build on the material covered in BIOE120. Experiments conducted in this laboratory course will cover topics such as biomechanical principles, biochemical methods, genetics and selection, scaling, microcosm interactions, human factors and imaging.

0101	Angela Jones Tu 8:00am - 8:50am W 8:00am - 10:00am	Seats (Total: 24) ANS 0408 CHE 1145	 Lab
0102	Angela Jones Tu 8:00am - 8:50am W 3:00pm - 5:00pm	Seats (Total: 24) ANS 0408 CHE 1145	 Lab
0103	Angela Jones Tu 8:00am - 8:50am F 8:00am - 10:00am	Seats (Total: 24) ANS 0408 CHE 1145	 Lab

BIOE232 **Bioengineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260; and permission of ENGR-Fischell Department of Bioengineering department. Restriction: Must be in Engineering: Bioengineering program. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.

A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.

0101	Gregory Payne TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) KEB 1110 EGR 0135	 Discussion
0102	Gregory Payne TuTh 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 30) KEB 1110 EGR 0135	 Discussion

BIOE241 **Biocomputational Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.

0101	Hubert Montas MWF 4:00pm - 4:50pm	Seats (Total: 30) KEB 2107
0201	Hubert Montas MWF 5:00pm - 5:50pm	Seats (Total: 30) KEB 2107

BIOE331 **Biofluids**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and (ENES232 or BIOE232). Restriction: Must be in Engineering: Bioengineering program; and permission of ENGR-Fischell Department of Bioengineering department. Also offered as: ENME331. Credit only granted for: BIOE331, ENCE305, or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0101	Christopher Jewell MW 12:30pm - 1:45pm F 1:00pm - 2:50pm	Seats (Total: 30) MCB 1207 CHM 0119	 Discussion
0102	Christopher Jewell MW 12:30pm - 1:45pm F 3:00pm - 4:50pm	Seats (Total: 30) MCB 1207 CHM 0119	 Discussion

BIOE340 **Modeling Physiological Systems and Lab**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, MATH246, BIOE120, BIOE121, and BIOE241; and permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE340 or (BSCI440 and BSCI441).

Topics covered will include cell and general physiology, membrane physiology, blood cells and clotting, circulation, metabolism, respiration, and the nervous system. A lab component will also be included.

0101	Steven Jay TuTh 3:30pm - 4:45pm Th 5:00pm - 6:30pm Tu 8:00am - 8:50am *Lab will meet in either KEB2107 or KEB2111.*	Seats (Total: 30) KEB 1200 KEB 2107 KEB 1200	 Lab Discussion
0102	Steven Jay TuTh 3:30pm - 4:45pm Th 5:00pm - 6:30pm Th 8:00am - 8:50am	Seats (Total: 30) KEB 1200 KEB 2111 ITV 1111	 Lab Discussion

BIOE371 **Bioengineering Math and Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH246.

This class will cover mathematics essentials that are required for bioengineering, specifically: statistics, linear algebra, differential equations, and feedback systems in biology. The course will emphasize fundamentals and numerical implementation (e.g. using Matlab). Example will be taken from bioengineering applications.

0101	Giuliano Scarcelli MW 3:30pm - 4:45pm	Seats (Total: 30) JMP 2202	

BIOE399 **Independent Study in Bioengineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Prerequisite: permission of department.

Contact department for information to register for this course.

BIOE399H **Independent Study in Bioengineering**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE404 **Biomechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246, ENES220, BIOE120, ENES102, BIOE121, and BIOE241; and permission of ENGR-Fischell Department of Bioengineering department. Restriction: Must be in Engineering: Bioengineering program.

Introduction to the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress and strain, multiaxial deformations, stress analysis, and viscoelasticity. Biomechanics of soft and hard tissues.

0101	Adam Hsieh MWF 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 35) CHE 2110 PLS 1117	 Discussion
0103	Adam Hsieh MWF 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 35) CHE 2110 MTH 0304	 Discussion

BIOE420 **Bioimaging**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and permission of ENGR-Fischell Department of Bioengineering department. Restriction: Must be in Engineering: Bioengineering program.

Examines the physical principles behind major biomedical imaging modalities and new ways of using images for bio-related applications.

0101	Yu Chen	Seats (Total: 40)	
	TuTh 12:30pm - 1:45pm	KEB 2111	

BIOE457 **Biomedical Electronics & Instrumentation**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BIOE120, BIOE121, BIOE241, and PHYS261. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Students learn fundamental concepts of electronics, assembly of electronic components into functional circuits, and integration of functional electronic devices and circuits into a system. In the lab component, students will learn to assemble and evaluate circuits and systems.

0101	Yang Tao	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	KEB 1200	
	Tu 1:30pm - 3:30pm	ANS 0505	Lab
0102	Yang Tao	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	KEB 1200	
	Th 1:30pm - 3:30pm	ANS 0505	Lab

BIOE485 **Capstone Design I: Entrepreneurship, Regulatory Issues, and Ethics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 21 credits in BIOE courses. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and senior standing; and must be in Engineering: Bioengineering program. Credit only granted for: BIOE485 or ENBE485. Formerly: ENBE485.

This is the first part of a two-semester senior capstone design course which covers principles involved in engineering design, design approaches, economics of design, ethics in engineering, and patent regulations. It also helps students learn team work and write design project proposals under the mentorship of a faculty advisor.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more information on the Fearless Ideas Courses.

0101	Yang Tao MW 2:00pm - 3:15pm	Seats (Total: 100) KEB 1110

BIOE489B **Special Topics in Bioengineering; Numerical Methods in Bioengineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Benjamin Shapiro W 4:00pm - 6:30pm	Seats (Total: 40) CSS 1410

BIOE489H **Special Topics in Bioengineering; Bioengineering Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Jose Aranda-Espinoza M 3:15pm - 4:15pm	Seats (Total: 40) KEB 1200

BIOE489L **Special Topics in Bioengineering; Metabolic Pathway Engineering**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Also offered as BIOE689L, ENCH468M, and ENCH648M. Credit will be granted for one of the following: BIOE489L, BIOE689L, ENCH468M, or ENCH648M.

0101	Ganesh Sriram MW 5:00pm - 6:15pm	Seats (Total: 30) CHE 2136

BIOE489M **Special Topics in Bioengineering; Biophysics of the Cell**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Jose Aranda-Espinoza TuTh 9:30am - 10:45am	Seats (Total: 20) EGR 3114

BIOE601 **Biomolecular and Cellular Rate Processes**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: BIOE601 or ENCH859B.

Presentation of techniques for characterizing and manipulating non-linear biochemical reaction networks. Advanced topics to include mathematical modeling of the dynamics of biological systems; separation techniques for heat sensitive biologically active materials; and rate processes in cellular and biomolecular systems. Methods are applied to current biotechnological systems, some include: recombinant bacteria; plant insect and mammalian cells; and transformed cell lines.

0101	Silvina Matysiak TuTh 9:30am - 10:45am	Seats (Total: 30) JMP 1202
BI01	Angela Jones Class time/details on ELMs *This section is restricted to ENPM students only.*	Seats (Total: 10) ONLINE

BIOE604 **Cellular and Physiological Transport Phenomena**

Credits: 3 Grading Method: Regular

A study of transport processes, including momentum, energy and mass transport, relevant to biosystems at various scales from physiological to cellular systems. Transport leads to sets of partial differential equations and the course revolves around approaches to solving these equations to arrive at fundamental understanding of the physics of transport in biosystems.

0101	Keith Herold TuTh 3:30pm - 4:45pm	Seats (Total: 25) CHE 2145
BI01	Keith Herold Class time/details on ELMs *This section is restricted to ENPM students only.*	Seats (Total: 30) ONLINE

BIOE605 **Laboratory Rotations I**

Credits: 1 Grading Method: Regular

Restriction: Must be in one of the following programs (ENGR: PhD Only-Bioengineering (Master's); ENGR: PhD Only-Bioengineering (Doctoral)).

Provides the opportunity to experience different laboratory environments. Students gain exposure to graduate research, learn a wide variety of laboratory and/or computational techniques, become familiar with Bioengineering program faculty, and develop insight on personal research interests and direction. Laboratory rotations are required in Fall and Spring of the first year of the Ph.D. Program. BIOE605: Laboratory Rotations I will be held in the Fall semester. BIOE606: Laboratory Rotations II will be held in the Spring semester.

0101	Jose Aranda-Espinoza, Tracy Chung W 9:00am - 9:50am	Seats (Total: 30) KEB 1200

BIOE608 **Bioengineering Seminar Series**

Credits: 1 Grading Method: Regular, Audit

A variety of topics related to Bioengineering will be presented in weekly seminars.

For BIOE majors only.

0101	Christopher Jewell F 9:00am - 9:50am	Seats (Total: 40) KEB 1105

BIOE612 **Physiological Evaluation of Bioengineering Designs**

Credits: 3 Grading Method: Regular, Audit

Bioengineering designs of biomaterials, biomedical devices, imaging and drug delivery agents, tissue engineering, prosthesis (among others), offer the opportunity to improve health care. This course is aimed at providing knowledge to lead bioengineering designs on the basis of biocompatibility and to provide tools to assess their patho-physiological impact in biological systems.

0101	Silvia Muro MW 8:30am - 9:45am	Seats (Total: 30) CHM 0127

BIOE632 **Biophotonic Imaging and Microscopy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS270 and BIOE420; and permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE432, BIOE632, or BIOE689C.

Principles and instrumentation of various biomedical optical techniques including fluorescene and Raman spectroscopy, confocal and multi-photon microscopy, optical coherence tomography, and diffuse optical tomography. Biomedical aplications will also be discussed.

BI01	Yu Chen	Seats (Total: 5)
	Class time/details on ELMs	ONLINE
	his section is restricted to ENPM students only.	

BIOE689 **Special Topics in Bioengineering**

Credits: 1-3 Grading Method: Regular

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE689V **Special Topics in Bioengineering; Computer-Aided Design in Bioengineering**

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Milton Davis	Seats (Total: 30)
	Tu 5:00pm - 7:45pm	KEB 2107

BIOE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL Biology Fall 2015

BIOL608B **Biology Seminar; Behavior Ecology**

(Perm req)

Credits: 1-2 Grading Method: Regular

0101	Gerald Borgia	Seats (Total: 10)
	Contact instructor or department for details.	

BIOL608K **Biology Seminar; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular

Also offered as CBMG699K, CHEM608K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 28)
	W 12:00pm - 1:40pm	BPS 1208

BIOL608R **Biology Seminar; Scientific Writing and Presentations**

Credits: 1 Grading Method: Regular

Also offered as CONS608G and MEES608G. Credit granted for BIOL608R, CONS608G, or MEES608G.

0101	Keryn Gedan	Seats (Total: 12)
	Contact instructor or department for details.	

BIOL609 **Special Problems in Biology**

Credits: 1-6 Grading Method: Regular

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL620 **Cell Biology**

Credits: 3 Grading Method: Regular, Audit

Offered with laboratory as BSCI 421. Molecular basis of cell structure and function in eukaryotes.

0101	Michael Ma	Seats (Total: 12)	
	MWF 12:00pm - 12:50pm	BPS 1250	
	F 11:00am - 11:50am	JMZ 3118	Discussion

0201	Michael Ma	Seats (Total: 5)	
	TuTh 12:30pm - 1:45pm	TYD 1102	
	F 11:00am - 11:50am	JMZ 3118	Discussion

BIOL671 **Molecular Evolution**

Credits: 3 Grading Method: Regular

Credit only granted for: BIOL671 or ZOOL645. Formerly: ZOOL645.

Basic foundations through advanced concepts in molecular evolution, including patterns and processes of DNA sequence variation, transposable element dynamics, gene duplication and loss, and genome organization. Relevant concepts from genetics, biochemistry, and phylogenetics also will be covered.

0101	Michael Cummings	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	BPS 1238

BIOL701 **Teaching Biology**

Credits: 1 Grading Method: Sat-Fail

Credit only granted for: BIOL701 or ZOOL701. Formerly: ZOOL701.

Introduction to instructional methods and strategies, University and College policies, and campus resources for new LFSC graduate teaching assistants.

0101	Reid Compton	Seats (Total: 20)
	Tu 6:00pm - 8:00pm	BPS 1208

BIOL704 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular

Recommended: BSCI330, PHYS121, and PHYS122. Also offered as: BSCI404. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BIOL708O.

An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.

0101	Sergei Sukharev	Seats (Total: 9)
	TuTh 3:30pm - 4:45pm	PLS 1113

BIOL708B **Advanced Topics in Biology; Animal Behavior**

Credits: 1-4 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Gerald Wilkinson MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 2) PLS 1130 EGR 3111	Discussion
0102	Gerald Wilkinson MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 2) PLS 1130 EGR 3111	Discussion
0103	Gerald Wilkinson MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 2) PLS 1130 EGR 0108	Discussion
0104	Gerald Wilkinson MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 2) PLS 1130 PLS 1162	Discussion

BIOL708N **Advanced Topics in Biology; Mammalian Physiology**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Joshua Singer MWF 10:00am - 10:50am	Seats (Total: 2) BRB 1101	

BIOL708Q **Advanced Topics in Biology; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in variou zoological subjects.

0101	Ricardo Araneda MW 2:00pm - 3:15pm	Seats (Total: 10) BPS 1230	

BIOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIOM Biometrics Fall 2015

BIOM301 **Introduction to Biometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: MATH113 or MATH115. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

0101	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 26) SHM 2102 ANS 0473	Discussion
0102	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 26) SHM 2102 ANS 0473	Discussion
0103	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 3:00pm - 3:50pm	Seats (Total: 26) SHM 2102 ANS 0473	Discussion
0104	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 9:30am - 10:20am	Seats (Total: 26) SHM 2102 ANS 0473	Discussion
0105	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 26) SHM 2102 ANS 0473	Discussion

0106	Christine Hakenkamp TuTh 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) SHM 2102 ANS 0473	Discussion
0107	Christine Hakenkamp TuTh 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 25) SHM 2102 ANS 0473	Discussion

BIOM405 **Computer Applications in Biometrics**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An introduction to computer applications for data analysis. This is equivalent to the computer lab of 601 and is required for students that have taken BIOM 301 and BIOM402 and wish to go directly into BIOM602.

0101	Li Ma Contact instructor or department for details.	Seats (Total: 5)

BIOM601 **Biostatistics I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: BIOM301 or STAT464; or students who have taken courses with comparable content may contact the department. Credit only granted for: BIOM401 or BIOM601.

Estimation and hypothesis testing, t tests, one and two way analysis of variance, regression, analysis of frequency data. Lecture will emphasize uses and limitations of these methods in biology, while the laboratory will emphasize the use of statistical analysis software for the analysis of biological data.

0101	Li Ma TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:00pm	Seats (Total: 27) ANS 0408 ANS 0473	Lab
0102	Li Ma TuTh 12:30pm - 1:45pm W 9:00am - 11:00am	Seats (Total: 27) ANS 0408 ANS 0473	Lab
0104	Li Ma TuTh 12:30pm - 1:45pm Th 2:00pm - 4:00pm	Seats (Total: 27) ANS 0408 ANS 0473	Lab

BIOM603 **Biostatistics III**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Must have completed a graduate-level statistical class; or students who have taken courses with comparable content may contact the department.

Applications and implementation of linear model analysis to biological data, including multivariate regression model, mixed model, generalized linear mixed model, nonlinear logistic and Poisson regression models, power calculation and survival analysis.

0101	Jiuzhou Song	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ANS 0402	
	Th 9:00am - 10:50am	ANS 0473	Lab

BIOM621 **Applied Multivariate Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BIOM602. Recommended: BIOM603.

Brief review of matrix algebra, means, covariance matrices, multivariat normal, multivariate confidence ellipses, MANOVA, Discriminant Methods, Principal Component Analysis, Factor Analysis, Multidimensional Scaling, Cluster Analyses, and other topics, depending on student interest.

0101	Bahram Momen	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	HJP 1213

BIOM688A **Topics in Biometrics; Consulting Experience in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest in various areas of biometrics. Credit assigned will depend on lecture and/or laboratory time scheduled and organization of the course.

Contact department for information to register for this course.

BIOM698 **Special Problems in Biometrics**

Credits: 1-3 Grading Method: Regular, Audit

Individual study of a particular topic in biostatistics or biomathematics.

Contact department for information to register for this course.

BIPH Biophysics Fall 2015

BIPH698L **Biophysics Seminar; Biophysics**

Credits: 1 Grading Method: Regular, Audit

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	IPT 1116

BIPH699 **Research in Biophysics**

Credits: 2 Grading Method: Regular

Supervised research in biophysics laboratories. Rotations through several laboratories prior to a choice of laboratory for a research assistantship.

Contact department for information to register for this course.

BIPH704 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular

Recommended: BSCI330, PHYS121, and PHYS122. Also offered as: BSCI404, BIOL704. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704.

An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.

0101	Sergei Sukharev	Seats (Total: 9)
	TuTh 3:30pm - 4:45pm	PLS 1113

BIPH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BIPH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BMGT Business and Management Fall 2015

BMGT110 **Introduction to the Business Value Chain**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

0101	Jeff Miller TuTh 12:30pm - 1:45pm	Seats (Total: 247) VMH 1524
FC01	Jeff Miller TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 72) KEY 0102

BMGT110F **Introduction to the Business Value Chain**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE

Restricted to Smith School's Smith Start (FPFF) students.

FP01	Humberto Coronado MW 9:30am - 10:45am	Seats (Total: 35) VMH 2203
FP02	Humberto Coronado MW 11:00am - 12:15pm	Seats (Total: 35) VMH 2203
FP03	Leland Gardner MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 2203
FP04	Hugh Turner M 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 35) VMH 1336 ONLINE
FP05	Hugh Turner Tu 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 35) VMH 1336 ONLINE
FP06	Richard Hutchins TuTh 9:30am - 10:45am	Seats (Total: 35) VMH 2203

FP07	Richard Hutchins TuTh 11:00am - 12:15pm	Seats (Total: 35) VMH 2203
FP08	Richard Hutchins TuTh 12:30pm - 1:45pm	Seats (Total: 35) VMH 2203
FP09	Hugh Turner W 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 35) VMH 1336 ONLINE
FP10	Hugh Turner Th 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 35) VMH 1336 ONLINE
FP11	Hugh Turner F 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 35) VMH 1415 ONLINE
FP12	Hugh Turner F 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 35) VMH 1415 ONLINE

BMGT190H **Introduction to Design and Quality**

Credits: 4 Grading Method: Regular General Education: DSSP

Restriction: Permission of BMGT-Robert H. Smith School of Business. Also offered as: ENES190. Credit only granted for: BMGT190 or ENES190.

Exposes engineering and business students to the principles of total quality, using experiential team-learning and technology-aided approaches. The first of four courses in total quality.

Restricted to Quest Program students.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more informationon the Fearless Ideas Courses.

0101	Pamela Armstrong TuTh 12:30pm - 1:45pm W 7:00pm - 8:50pm	Seats (Total: 45) VMH 1415 VMH 1412	 Discussion

BMGT210 **Foundations of Accounting for Non Business Majors**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT221; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: (BMGT220 and BMGT221) or BMGT210. Additional information: Does not apply to a Smith School degree. Course may be substituted for the General Business or Innovation and Entrepreneurship minor if a student completes both BMGT 220 and 221 (taking only one of these courses does not fulfill the minor course requirement). Credit will not be given for both BMGT210 and the combination of BMGT220 and BMGT221.

Provides an understanding of the common statements that report a company's profitability and financial health, and are useful to all economic agents who are engaged with the firm. Students will also recognize and understand managerial accounting as a system for accumulating and modeling information to support decision-making.

Restricted to General Business Minors

BL01	Eugene Cantor **Meets August 31, 2015 - October 19, 2015** MW 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 180) ASY 2203 ONLINE	

BMGT220 Principles of Accounting I

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Open to all students with 24 credit hours completed.

0101	Progyan Basu MW 8:00am - 9:15am F 9:00am - 9:50am	Seats (Total: 31) VMH 1212 VMH 1202	 Discussion
0102	Progyan Basu MW 8:00am - 9:15am F 10:00am - 10:50am	Seats (Total: 31) VMH 1212 VMH 1202	 Discussion
0103	Progyan Basu MW 8:00am - 9:15am F 11:00am - 11:50am	Seats (Total: 31) VMH 1212 VMH 1202	 Discussion

0104	Progyan Basu MW 8:00am - 9:15am F 12:00pm - 12:50pm	Seats (Total: 31) VMH 1212 VMH 1202	 Discussion
0201	Progyan Basu MW 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 31) VMH 1212 VMH 1206	 Discussion
0202	Progyan Basu MW 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 31) VMH 1212 VMH 1206	 Discussion
0203	Progyan Basu MW 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 31) VMH 1212 VMH 1206	 Discussion
0204	Progyan Basu MW 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 31) VMH 1212 VMH 1206	 Discussion
0301	Progyan Basu MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 31) VMH 1212 VMH 1303	 Discussion
0302	Progyan Basu MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 31) VMH 1212 VMH 1303	 Discussion
0303	Progyan Basu MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 31) VMH 1212 VMH 1303	 Discussion
0304	Progyan Basu MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 31) VMH 1212 VMH 1303	 Discussion
0305	Progyan Basu MW 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 31) VMH 1212 VMH 1303	 Discussion

0306	Progyan Basu MW 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 31) VMH 1212 VMH 1303	Discussion
0401	Progyan Basu MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 31) VMH 1212 VMH 1307	Discussion
0402	Progyan Basu MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 31) VMH 1212 VMH 1307	Discussion
0403	Progyan Basu MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 31) VMH 1212 VMH 1307	Discussion
0404	Progyan Basu MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 31) VMH 1212 VMH 1307	Discussion
0405	Progyan Basu MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 31) VMH 1212 VMH 1307	Discussion
0406	Progyan Basu MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 31) VMH 1212 VMH 1307	Discussion

BMGT220H Principles of Accounting I

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Restricted to Honors students with 24 credit hours completed.

0101	Stephen Brown TuTh 11:00am - 12:15pm	Seats (Total: 31) VMH 1336	

BMGT221 Principles of Accounting II

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Restricted to students with 24 credit hours completed.

0101	Gary Bulmash TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 33) VMH 1212 VMH 1335	 Discussion
0102	Gary Bulmash TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 33) VMH 1212 VMH 1335	 Discussion
0103	Gary Bulmash TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 33) VMH 1212 VMH 1335	 Discussion
0104	Gary Bulmash TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 33) VMH 1212 VMH 1335	 Discussion
0105	Gary Bulmash TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 33) VMH 1212 VMH 1335	 Discussion
0201	Gary Bulmash TuTh 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 33) VMH 1212 VMH 1336	 Discussion
0202	Gary Bulmash TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 33) VMH 1212 VMH 1336	 Discussion
0203	Gary Bulmash TuTh 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 33) VMH 1212 VMH 1336	 Discussion

0204	Gary Bulmash	Seats (Total: 33)	
	TuTh 2:00pm - 3:15pm F 12:00pm - 12:50pm	VMH 1212 VMH 1336	Discussion
0205	Gary Bulmash	Seats (Total: 33)	
	TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	VMH 1212 VMH 1336	Discussion

BMGT221H **Principles of Accounting II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Course restricted to University Honors Studetns with 24 credit hours completed.

0101	Richard Costantino	Seats (Total: 35)	
	TuTh 3:30pm - 4:45pm	VMH 1518	

BMGT230 **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH220 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200 or SOCY201.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

0101	Radu Lazar	Seats (Total: 27)	
	MW 11:00am - 12:15pm F 8:00am - 8:50am	VMH 1524 VMH 1314	Discussion

0102	Radu Lazar MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 13) VMH 1524 VMH 1314	Discussion
0103	Radu Lazar MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 27) VMH 1524 VMH 1314	Discussion
0104	Radu Lazar MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 13) VMH 1524 VMH 1314	Discussion
0105	Radu Lazar MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 13) VMH 1524 VMH 1314	Discussion
0106	Radu Lazar MW 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 27) VMH 1524 VMH 1314	Discussion
0107	Radu Lazar MW 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 27) VMH 1524 VMH 1314	Discussion
0201	Radu Lazar MW 12:30pm - 1:45pm F 8:00am - 8:50am	Seats (Total: 27) VMH 1524 VMH 1411	Discussion
0202	Radu Lazar MW 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 27) VMH 1524 VMH 1411	Discussion
0203	Radu Lazar MW 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 27) VMH 1524 VMH 1411	Discussion
0204	Radu Lazar MW 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 27) VMH 1524 VMH 1411	Discussion

0205	Radu Lazar MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 13) VMH 1524 VMH 1411	Discussion
0206	Radu Lazar MW 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 13) VMH 1524 VMH 1411	Discussion
0207	Radu Lazar MW 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 13) VMH 1524 VMH 1411	Discussion
0301	Radu Lazar MW 2:00pm - 3:15pm F 8:00am - 8:50am	Seats (Total: 27) VMH 1524 VMH 1418	Discussion
0302	Radu Lazar MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0303	Radu Lazar MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0304	Radu Lazar MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0305	Radu Lazar MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0306	Radu Lazar MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0307	Radu Lazar MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 27) VMH 1524 VMH 1418	Discussion

BMGT230B Business Statistics

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH220 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200 or SOCY201.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

Restricted to BMGT majors.

0102	Radu Lazar MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 13) VMH 1524 VMH 1314	 Discussion
0104	Radu Lazar MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 13) VMH 1524 VMH 1314	 Discussion
0105	Radu Lazar MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 13) VMH 1524 VMH 1314	 Discussion
0205	Radu Lazar MW 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 13) VMH 1524 VMH 1411	 Discussion
0206	Radu Lazar MW 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 13) VMH 1524 VMH 1411	 Discussion
0207	Radu Lazar MW 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 13) VMH 1524 VMH 1411	 Discussion
0302	Radu Lazar MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 13) VMH 1524 VMH 1418	 Discussion

0303	Radu Lazar MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0304	Radu Lazar MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0305	Radu Lazar MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 13) VMH 1524 VMH 1418	Discussion
0306	Radu Lazar MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 13) VMH 1524 VMH 1418	Discussion

BMGT230H **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH220 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200 or SOCY201.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

Restricted to Honors students.

0101	Kazim Ruhi TuTh 9:30am - 10:45am	Seats (Total: 31) VMH 1336

BMGT289B **How Do Innovators Think?**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

Credit will be granted for only one of the following: BMBT289B or HONR289P. Evening guest speakers 6-9:30pm on various Thursdays. Daytime meetings will be held every week.

0101	Mark Wellman M 9:00am - 10:50am Contact instructor or department for details.	Seats (Total: 45) CCC 1100
0201	Mark Wellman M 3:30pm - 5:20pm Contact instructor or department for details. *This section is restricted to College Park Scholars in Business, Society and the Economy sudents.*	Seats (Total: 67) TWS 1100

BMGT289D **Frauds, Scams, and Thefts: What, How and Why?**

Credits: 3 | Grading Method: Regular | General Education: DSSP, SCIS

0101	David Weber TuTh 3:30pm - 4:45pm	Seats (Total: 65) TYD 2106
0201	David Weber TuTh 5:00pm - 6:15pm	Seats (Total: 65) TYD 2106

BMGT289E **Entrepreneurial Thinking for Non-Business Majors: How Not to Miss Great Opportunities Your Life Throws at You**

Credits: 3 | Grading Method: Regular | CORE: IE | General Education: DSSP, SCIS

0101	Jonathan Aberman MW 2:00pm - 3:15pm	Seats (Total: 65) MCB 1207

BMGT289F **Is America Destined to Fall by 2076?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

0101	James Spina F 1:00pm - 3:30pm	Seats (Total: 70) VMH 1330

BMGT289I **Why Good Managers Make Bad Decisions**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSSP, SCIS

Why do smart managers make flawed decisions? Why do managers keep believing they have made the right choice, even with disastrous results staring them in the face? Why Good Managers Make Bad Decisions will address how evidence-based management and other decisionmaking tools can be used to uncover hidden assumptions in the corner offices of great corporations.

FC01	Jeff Miller TuTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) KEY 0125

BMGT289K **Giving Voice To Values**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

0101	Brian Nelson TuTh 3:30pm - 4:45pm	Seats (Total: 65) ASY 2203

BMGT289M **European Debt Crisis: More Integration or Withering of a Dream?**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

0101	Ulrich Hewer, Donal Donovan M 5:00pm - 7:40pm	Seats (Total: 100) SQH 1120

BMGT298F **Special Topics in Business and Management; Global Mindset Colloquium**

(Perm req)

Credits: 1 Grading Method: Regular

Introductory special topics in business and management.

Restricted to students in the Global Mindset program.

0101	Victor Mullins, Kristin LaRiviere F 10:00am - 10:50am	Seats (Total: 30) VMH 1412
0201	Victor Mullins, Kristin LaRiviere F 11:00am - 11:50am	Seats (Total: 30) VMH 1412

BMGT298R **Special Topics in Business and Management; Quantitative Methods for Business**

Credits: 3 Grading Method: Regular

Introductory special topics in business and management.

Contact department for information to register for this course.

BMGT301 **Introduction to Information Systems**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to BMGT majors with 53 credits completed. Students must pay a $44.00 course fee.

0101	Zeinab Karake MW 9:30am - 10:45am	Seats (Total: 58) VMH 1524
0201	Philip Piety MW 3:30pm - 4:45pm	Seats (Total: 58) VMH 1412
0301	Zeinab Karake TuTh 11:00am - 12:15pm	Seats (Total: 58) VMH 1303
0401	Zeinab Karake TuTh 12:30pm - 1:45pm	Seats (Total: 58) VMH 1303
0501	Philip Piety MW 12:30pm - 1:45pm	Seats (Total: 58) VMH 1333
0601	Jorge Mejia MW 5:00pm - 6:15pm	Seats (Total: 58) VMH 1412
0701	Dongwon Lee M 7:00pm - 9:40pm	Seats (Total: 58) VMH 1303

BMGT301F **Introduction to Information Systems**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to second year students in the Smith School's Smith Start program (FPFF). Students must pay a $44.00 course fee.

FP01	Zeinab Karake MW 12:30pm - 1:45pm	Seats (Total: 65) VMH 1412	
FP02	Zeinab Karake MW 8:00am - 9:15am	Seats (Total: 65) VMH 1412	

BMGT302 **Designing Business Applications**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

A structured approach to business application development and programming is provided. Problem solving techniques, program design, and logic, are emphasized. Hands-on exercises in which students participate in designing and developing cross-disciplinary business applications are included.

Restricted to BMGT majors with 53 credit hours completed. Not open to Computer Science Majors.

0101	Peng Huang TuTh 3:30pm - 4:45pm Th 5:00pm - 5:50pm	Seats (Total: 27) VMH 1311 VMH 1311	 Lab
0201	Peng Huang TuTh 9:30am - 10:45am Th 6:00pm - 6:50pm	Seats (Total: 27) VMH 1311 VMH 1311	 Lab

0301	Kyungjin Yoo	Seats (Total: 18)	
	TuTh 3:30pm - 4:45pm	VMH 2203	
	Th 5:00pm - 5:50pm	VMH 2203	Lab
	Students learn to design and program Macro in Excel using Visual Basic for Applications (VBA) to support business analytics. Fundamental programming principles are also introduced using the Visual Basic programming language.		

BMGT302F **Designing Business Applications**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

A structured approach to business application development and programming is provided. Problem solving techniques, program design, and logic, are emphasized. Hands-on exercises in which students participate in designing and developing cross-disciplinary business applications are included.

Restricted to students in the Smith School's TBT Fellows program.

FP01	Peng Huang	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	VMH 1311	
	Th 7:00pm - 7:50pm	VMH 1311	Lab
	Th 6:00pm - 6:50pm	VMH 2203	Lab

BMGT310 **Intermediate Accounting I**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.

0201	Mary Keim	Seats (Total: 38)	
	MW 11:00am - 12:15pm	VMH 1333	
	Restricted to Accounting or Finance majors with 53 credit hours completed.		
0301	Stephen Brown	Seats (Total: 38)	
	MW 12:30pm - 1:45pm	VMH 1202	
	Restricted to Accounting or Finance majors with 53 credit hours completed.		

0401	Musa Subasi TuTh 2:00pm - 3:15pm *Restricted to Accounting or Finance majors with 53 credit hours completed.*	Seats (Total: 38) VMH 1307
0501	Musa Subasi TuTh 12:30pm - 1:45pm *Restricted to Accounting or Finance majors with 53 credit hours completed.*	Seats (Total: 38) VMH 1411
0601	Stephen Brown MW 2:00pm - 3:15pm *Restricted to Accounting or Finance majors with 53 credit hours completed.*	Seats (Total: 38) VMH 1202
SG91	Mary Keim TuTh 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors majoring in Accounting. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 20) BLD2 3012
SG92	Mary Keim TuTh 11:00am - 12:15pm *Restricted to BMGT- Shady Grove Juniors majoring in Accounting. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 20) BLD2 3012

BMGT311 **Intermediate Accounting II**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310.

Continuation of BMGT310.

Restricted to accounting majors with 60 credit hours completed.

0101	Oliver Kim TuTh 11:00am - 12:15pm	Seats (Total: 40) VMH 1202
0201	Sandra Rose MW 3:30pm - 4:45pm	Seats (Total: 40) VMH 1212
0301	Oliver Kim TuTh 3:30pm - 4:45pm	Seats (Total: 40) VMH 1202

0401	Sandra Rose	Seats (Total: 29)
	MW 6:30pm - 7:45pm	VMH 1314

BMGT313 **Financial Statement Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

Restricted to Accounting and Finance majors with 53 credits completed.

0101	Hanna Lee	Seats (Total: 36)
	MW 3:30pm - 4:45pm	VMH 1411

BMGT313F **Financial Statement Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

FP01	Hanna Lee	Seats (Total: 31)
	MW 9:30am - 10:45am	VMH 1202
	Restricted to Banking & Private Wealth Management Fellows (FPFS) and Emerging CFOs (FPEC).	
FP02	Hanna Lee	Seats (Total: 31)
	MW 11:00am - 12:15pm	VMH 1202
	Restricted to Banking & Private Wealth Management Fellows (FPFS) and Emerging CFOs (FPEC).	

BMGT321 **Managerial Accounting**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

A study of the basic concepts of product costing and cost analysis for management planning and control. Emphasis is placed on the role of the accountant in organizational management, analysis of cost behavior, standard cost budgeting, responsibility accounting and relevant costs for decision-making.

0101	Eugene Cantor TuTh 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 31) VMH 1202
0201	Michael Finch MW 11:00am - 12:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 31) VMH 1303
0301	Michael Finch MW 3:30pm - 4:45pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 31) VMH 1418
0401	Michael Finch MW 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 31) VMH 1418
SG91	Michael Finch TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other st dents may request enrollment on a space available basis. UMCP undergradu ate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 36) BLD2 2062
SG92	Michael Finch TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 36) BLD2 2062

BMGT323 **Taxation of Individuals**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of individuals focusing on income, exclusions, deductions, depreciation, credits and capital transactions. Property coverage includes the tax consequences of sales and dispositions of investment and business assets. Both tax planning and compliance issues are covered.

0101	Leslie Mostow TuTh 2:00pm - 3:15pm *Restricted to accounting majors with 53 credit hours completed.*	Seats (Total: 42) VMH 1418
0201	Jeffrey Milton MW 11:00am - 12:15pm *Restricted to accounting majors with 53 credit hours completed.*	Seats (Total: 42) VMH 1206
0301	Samuel Handwerger MW 12:30pm - 1:45pm *Restricted to accounting majors with 53 credit hours completed.*	Seats (Total: 42) VMH 1206
0401	Samuel Handwerger TuTh 5:00pm - 6:15pm *Restricted to accounting majors with 53 credit hours completed.*	Seats (Total: 42) VMH 1206

BMGT326 Accounting Systems

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT201 or BMGT301).

A study of accounting systems and computer and communications technology.

0101	Sebahattin Demirkan TuTh 3:30pm - 4:45pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 42) VMH 1206
0201	Sebahattin Demirkan TuTh 12:30pm - 1:45pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 42) VMH 1336
0301	Sebahattin Demirkan TuTh 2:00pm - 3:15pm *Restricted to Accounting majors with 60 credit hours completed.*	Seats (Total: 42) VMH 1335

BMGT332 Operations Research For Management Decisions

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department.

Surveys the philosophy, techniques and applications of operations research to managerial decision-making. Techniques covered include: linear programming, transportation and assignment models, Markov processes and inventory and queuing models. Emphasis is placed on formulating and solving decision problems in the functional areas of management.

Restricted to BMGT majors and Quest students with 53 credit hours completed.

0101	Liu Ming TuTh 12:30pm - 1:45pm	Seats (Total: 47) VMH 1335
0201	Bruce Golden TuTh 2:00pm - 3:15pm	Seats (Total: 47) VMH 1202

BMGT340 Business Finance

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

BL01	Karen Hallows MW 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 58) VMH 1520 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL02	Karen Hallows MW 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 58) VMH 1520 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL03	Michael Padhi MW 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 48) VMH 1412 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	

BL04	Michael Padhi MW 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 58) VMH 1412 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL05	Karen Hallows TuTh 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 58) VMH 1524 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL06	Karen Hallows TuTh 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 58) VMH 1412 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
BL07	Karen Hallows TuTh 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 58) VMH 1412 ONLINE
	Blended Learning courses combine face-to-face and online interactions. Restricted to BMGT majors with 53 credit hours completed. Where a BMG exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.	
SG91	Michael Padhi TuTh 11:00am - 12:15pm	Seats (Total: 29) Location: TBA
	Restriced to BMGT-Shady Grove Juniors majoring in Accounting and Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Michael Padhi TuTh 12:30pm - 1:45pm	Seats (Total: 29) Location: TBA
	Restricted to BMGT-Shady Grove Juniors majoring in Accounting and Entrepreneurhip. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

SG93	Michael Padhi	Seats (Total: 29)
	TuTh 2:00pm - 3:15pm	BLD3 3202
	Restricted to BMGT-Shady Grove Juniors majoring in International Business and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT undergraduate students are not eligible to enroll at Shady Grove.	

BMGT340F **Business Finance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to students in the Smith School's Sophomore Wall Street Fellows Program.

FP01	David Kass	Seats (Total: 31)
	MW 12:30pm - 1:45pm	VMH 1335

BMGT340H **Business Finance**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	David Kass	Seats (Total: 31)
	MW 5:00pm - 6:15pm	VMH 1518

BMGT340N **Business Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

BL03	Michael Padhi MW 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 9) VMH 1412 ONLINE

BMGT341 **Financial Markets**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Formerly: BMGT498G.

Shows the interconnectedness of the markets. The role of the Central bank and monetary policy is included in this context. Students develop an understanding of: (i) the determination of interest rates; (ii) financial instruments, markets and institutions; (iii) the impact of monetary policy on institutions; and (iv) how financial innovations create markets.

Prerequisite: BMGT340. Restricted to Finance majors with 60 credit hours completed.

Click here for more course information.

0101	Julie Pavlovsky TuTh 9:30am - 10:45am	Seats (Total: 43) VMH 1411
0201	Julie Pavlovsky TuTh 11:00am - 12:15pm	Seats (Total: 43) VMH 1411
0301	Julie Pavlovsky TuTh 2:00pm - 3:15pm	Seats (Total: 43) VMH 1411

BMGT343 **Investments**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

An introduction to financial investments. Topics include: securities and securities markets; investment risks, returns and constraints; portfolio policies; and institutional investment policies.

Restricted to Finance majors with 60 credit hours completed.

0101	Shrihari Santosh MW 12:30pm - 1:45pm	Seats (Total: 42) VMH 1418
0201	Xiaohui Bakshi TuTh 11:00am - 12:15pm	Seats (Total: 42) VMH 1418
0301	Xiaohui Bakshi TuTh 12:30pm - 1:45pm	Seats (Total: 42) VMH 1418
0401	Shrihari Santosh MW 11:00am - 12:15pm	Seats (Total: 42) VMH 1336
0501	Michael Padhi MW 3:30pm - 4:45pm	Seats (Total: 42) VMH 1415

BMGT345 **Foundations of Financial Management for Non Business Majors**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT340; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT345 or BMGT340. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT340 for General Business minor or Innovation and Entrepreneurship minor students only.

Provides students an overview of financial management. Students will understand how to accomplish the firm goal of maximizing shareholder value, learn how to conduct a financial statement analysis, and recognize its various elements, including profitability, credit risk, revenue, assets, liability, and cash flows. Understand the relationship between risk and return and how it impacts investment and corporate decisions.

Restricted to General Business Minors.

BL01	Susan White **Meets October 21, 2015 - December 11, 2015** MW 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 180) ASY 2203 ONLINE

BMGT349F **Private Equity and Venture Capital**

Credits: 3 Grading Method: Regular

The New Markets Private Equity/Venture Capital Clinic allows students to gain professional experience commensurate with that of an Associate in a Venture Capital Firm. Students are trained to buy, own, actively manage and sell high growth technology companies in private transactions. The class format includes: lectures; presentations from guest speakers, including the regions leading CEOs, private equity and service providers; and a series of facilitated exercises that simulate buying, owning and selling businesses. The course exposes students to real life activities covering the entire deal process from market research, diligence, selection, negotiation valuing, and structuring an investment, as well as management, growth and exit of portfolio companies.

Restricted to students in the Private Equity and Venture Capital Fellows program.

FP01	Mark Grovic Tu 12:30pm - 3:00pm Contact instructor or department for details.	Seats (Total: 12) Location: TBA

BMGT350 Marketing Principles and Organization

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

BL01	Roxanne Lefkoff M 9:30am - 10:45am Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 58) VMH 1520 ONLINE
BL02	Roxanne Lefkoff M 12:30pm - 1:45pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 58) VMH 1303 ONLINE
BL03	Roxanne Lefkoff M 2:00pm - 3:15pm Class time/details on ELMs *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 58) VMH 1303 ONLINE

BL04	Diane Whitney W 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 49) VMH 1520 ONLINE
	Restricted to BMGT majors with 53 credit hours completed.	
BL05	Diane Whitney W 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 58) VMH 1303 ONLINE
	Restricted to BMGT majors with 53 credit hours completed.	
BL06	Diane Whitney W 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 58) VMH 1303 ONLINE
	Restricted to BMGT majors with 53 credit hours completed.	
BL07	Marjorie Bonavia Tu 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 58) VMH 1212 ONLINE
	Restricted to BMGT majors with 53 credit hours completed.	
SG91	Henry Boyd MW 9:30am - 10:45am	Seats (Total: 29) BLD3 3230
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Henry Boyd MW 11:00am - 12:15pm	Seats (Total: 29) BLD3 3230
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG93	Henry Boyd MW 2:00pm - 3:15pm	Seats (Total: 29) BLD3 3230
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT350H Marketing Principles and Organization

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	Roxanne Lefkoff TuTh 9:30am - 10:45am	Seats (Total: 31) VMH 1415

BMGT350N Marketing Principles and Organization

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to agricultural and resource economics (0111C) and horticulture (0107C) majors with 53 credit hours completed.

BL04	Diane Whitney W 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 9) VMH 1520 ONLINE

BMGT352 Customer-Centric Innovation

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BMGT350.

Addresses the management of new products and services with a focus on the innovation process, specifically the development and launching of new products or services: Opportunity Identification, Concept Generation, Design, Testing and Launch.

Contact department for information to register for this course.

BMGT353 Retail Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220 and BMGT350.

Planning and implementing retail marketing strategy. Store and nonstore (catalog, internet) retailing. Evaluation of how environmental trends in the consumer market, competition, the economy and technology affect retail strategy in the U.S. and global market.

Restricted to BMGT majors with 60 credit hours completed.

0101	Jie Zhang TuTh 2:00pm - 3:15pm	Seats (Total: 31) VMH 1206
0201	Jie Zhang TuTh 12:30pm - 1:45pm	Seats (Total: 31) VMH 1206

BMGT355 **Foundations of Marketing for Non Business Majors**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT350 for General Business minor or Innovation and Entrepreneurship minor students only.

Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to Innovation and Entrepreneurship Minors.

BL01	Henry Boyd **Meets August 31, 2015 - October 17, 2015** Tu 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) KEY 0106 ONLINE
BL02	Henry Boyd **Meets August 31, 2015 - October 17, 2015** Th 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) KEY 0106 ONLINE

BL03	Henry Boyd **Meets August 31, 2015 - October 17, 2015** Tu 5:00pm - 6:15pm Class time/details on ELMs	Seats (Total: 60) SQH 1120 ONLINE	

BMGT360 Strategic Management of Human Capital

Credits: 3 Grading Method: Regular

Provides students with the basic knowledge needed to help organizations attract, select, develop, engage, evaluate, and retain talent. Topics covered may include strategic HRM, the role of globalization, legal issues in HRM, work analysis, HR planning, recruitment, personnel selection, performance management and appraisal, training and development, career development, compensation systems, motivating and rewarding performance, labor relations, and employee health and safety.

0101	James Spina MW 12:30pm - 1:45pm F 9:00am - 9:50am *Open to all students with 53 credit hours completed.*	Seats (Total: 31) VMH 1212 VMH 1330	Discussion
0102	James Spina MW 12:30pm - 1:45pm F 10:00am - 10:50am *Open to all students with 53 credit hours completed.*	Seats (Total: 31) VMH 1212 VMH 1330	Discussion
0103	James Spina MW 12:30pm - 1:45pm F 11:00am - 11:50am *Open to all students with 53 credit hours completed.*	Seats (Total: 31) VMH 1212 VMH 1330	Discussion
0104	James Spina MW 12:30pm - 1:45pm F 12:00pm - 12:50pm *Open to all students with 53 credit hours completed.*	Seats (Total: 31) VMH 1212 VMH 1330	Discussion
SG91	Lori Spina TuTh 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 40) BLD2 2062	

BMGT361 **Entrepreneurship: Starting and Managing the Entrepreneurial Venture**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must be in the Smith Entrepreneurship Fellows Program; and must not have completed BMGT461. Credit only granted for: BMGT261, BMGT361, or BMGT461. Formerly: BMGT261.

Focuses on the early development of a new venture. Topics include: idea-getting, opportunity recognition, feasibility studies, new venture financing and startup. Guests speakers and practicing entrepreneurs offer real world guidance. Restricted to students admitted to the Smith Entrepreneurship Fellows Program.

SG91	Oliver Schlake	Seats (Total: 36)
	Tu 2:00pm - 4:40pm	BLD2 3022
	Restricted to BMGT-Shady Grove Juniors majoring in Entrepreneurship. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT363 **Leadership and Teamwork in Organizations**

Credits: 3 Grading Method: Regular

Provides a comprehensive understanding of fundamental leadership concepts, theories, and skills in organizations and applies to assessing and developing effective leadership practices in organizations.

Restricted to Management (0503G) majors with 53 credit hours completed.

0101	Myeong-Gu Seo	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	VMH 1333

BMGT364 **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

0101	Gosia Langa	Seats (Total: 49)
	MW 8:00am - 9:15am	VMH 1303
	Restricted to BMGT majors with 53 credit hours completed.	

0201	Gosia Langa MW 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 54) VMH 1303
0301	Nicole Coomber MW 5:00pm - 6:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 54) VMH 1303
0401	Judith Gebhardt TuTh 8:00am - 9:15am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 54) VMH 1303
0501	Judith Gebhardt TuTh 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 54) VMH 1303
0601	Hannah Weiser TuTh 5:00pm - 6:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 54) VMH 1333
0701	Gosia Langa Tu 7:00pm - 9:40pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 54) VMH 1303
SG91	Nicole Coomber MW 8:00am - 9:15am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 29) BLD3 3202
SG92	Nicole Coomber MW 9:30am - 10:45am *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 29) BLD3 3202

SG93	Nicole Coomber	Seats (Total: 29)
	MW 11:00am - 12:15pm	BLD3 3202
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT364N **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to agricultural and resource economics (0111C) and dietetics (1307D) majors with 53 credit hours completed.

0101	Gosia Langa	Seats (Total: 5)
	MW 8:00am - 9:15am	VMH 1303

BMGT367 **Career Search Strategies in Business**

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

An overview and opportunity to practice job search skills critical to obtaining internships and full-time positions. Course will cover strategies for exploring career options, preparing job search materials, development of job search skills such as interviewing and networking. Students are encouraged to take this course in the sophomore or junior year.

0101	Michael Poerksen	Seats (Total: 60)
	M 5:00pm - 5:50pm	VMH 1212
	Restricted to BMGT students with 45 credit hours completed.	
0201	Grant Clough	Seats (Total: 60)
	Tu 5:00pm - 5:50pm	VMH 1212
	Restricted to BMGT students with 45 credit hours completed.	

0301	Rachel Henderson W 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 60) VMH 1212
0401	Michelle Doan M 6:00pm - 6:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 60) VMH 1212
0501	Susan Powell Tu 6:00pm - 6:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 60) VMH 1212
0601	Elmer Cherry M 5:00pm - 5:50pm *Restricted to BMGT students with 45 credit hours completed.*	Seats (Total: 60) VMH 1524
SG91	Sadie Edmonds Tu 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majroing in Entrepreneurship, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.*	Seats (Total: 24) BLD2 2052
SG92	Katherine Bosch W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 85) BLD2 2032
SG93	Dennis Strzegowski W 5:00pm - 5:50pm *Restricted to BMGT-Shady Grove Juniors majroing in Entrepreneurship, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.*	Seats (Total: 24) BLD2 3012

BMGT370 Introduction to Transportation

Credits: 3 Grading Method: Regular

An overview of the transportation field with an emphasis on freight movements from the perspective of both providers of capacity and users of freight services. Examines the characteristics of the freight modes and the role of each mode as a major component of logistics and supply chain management. Explores the economics, energy use, and finances of each mode as well as the impact of government policies on each mode's future. Discussion of infrastructure and capacity needs of the transportation system and its ability to support the economy.

Restricted to BMGT majors with 53 credit hours completed.

0101	Geoffrey Milsom MW 8:00am - 9:15am	Seats (Total: 40) VMH 1307
0201	Geoffrey Milsom MW 9:30am - 10:45am	Seats (Total: 40) VMH 1307

BMGT372 **Introduction to Logistics and Supply Chain Management**

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

Restricted to BMGT majors with 53 credit hours completed.

0101	Angelisa Gillyard TuTh 9:30am - 10:45am	Seats (Total: 36) VMH 1206
0201	Angelisa Gillyard TuTh 11:00am - 12:15pm	Seats (Total: 36) VMH 1206
0301	Leland Gardner MW 5:00pm - 6:15pm	Seats (Total: 36) VMH 1202
0401	Jeff Miller MW 3:30pm - 4:45pm	Seats (Total: 36) VMH 1524

BMGT380 **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

0101	Gideon Mark MW 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 44) VMH 1336
0201	T Anenson MW 3:30pm - 4:45pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 58) VMH 1303
0301	T Anenson MW 5:00pm - 6:15pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 58) VMH 1333
0401	Gideon Mark MW 2:00pm - 3:15pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 58) VMH 1412
0501	William McClenahan TuTh 9:30am - 10:45am *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 58) VMH 1333
0601	William McClenahan TuTh 2:00pm - 3:15pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 58) VMH 1303
0701	Richard Daniels TuTh 3:30pm - 4:45pm *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 380N.*	Seats (Total: 58) VMH 1333

SG91	Brian Nelson MW 9:30am - 10:45am	Seats (Total: 54) BLD2 2032
	Restricted to BMGT-shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Brian Nelson MW 11:00am - 12:15pm	Seats (Total: 54) BLD2 2032
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG93	Brian Nelson MW 12:30pm - 1:45pm	Seats (Total: 54) BLD2 2032
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT380N **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

0101	Gideon Mark MW 9:30am - 10:45am	Seats (Total: 9) VMH 1336

BMGT381 **Business Law II**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT380; or permission of BMGT-Robert H. Smith School of Business.

The Uniform Commercial Code, including sales, commercial paper, secured transactions, bulk sales and documents of title. The law of partnerships and corporations. Reorganization and liquidation under the bankruptcy laws. The law of real property, landlord and tenant relationships and decedents' estates.

Restricted to BMGT majors with 63 credit hours completed.

0101	William McClenahan TuTh 3:30pm - 4:45pm	Seats (Total: 54) VMH 1303

BMGT385 **Operations Management**

Credits: 3 Grading Method: Regular

Credit only granted for: BMGT385 or ENME426.

Studies the design, management and improvement of a firm's processes an systems for creation and delivery of products and services. Includes strategic and operational views of supply chain, product development, and capacity analysis, highlighting the competitive advantages that operations management can provide the firm.

Restricted to BMGT majors and QUEST program students with 53 credit hours completed and to Business Process Fellows.

0101	Kazim Ruhi	Seats (Total: 34)
	TuTh 2:00pm - 3:15pm	VMH 1518

BMGT390H **Systems Thinking for Managerial Decision Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190; and must be a QUEST student. Also offered as: ENES390. Credit only granted for: BMGT390, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST program students. Also offered as ENES390H.

0101	Jose Suarez	Seats (Total: 45)
	MW 5:00pm - 6:15pm	VMH 1415

BMGT392 **Introduction to International Business Management**

Credits: 3 Grading Method: Regular

Prerequisite: ECON200.

A study of the domestic and foreign environmental factors affecting the international operations of U.S. business firms. The course also covers the administrative aspects of international marketing, finance and management.

Restricted to BMGT majors with 53 credit hours completed.

0101	Peter Morici TuTh 3:30pm - 4:45pm	Seats (Total: 28) VMH 1418
0201	Peter Morici TuTh 5:00pm - 6:15pm	Seats (Total: 28) VMH 1418

BMGT395 **Foundations of Management for Non Business Majors**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT364; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT395 or BMGT364. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT364 for General Business minor or Innovation and Entrepreneurship minor students only.

Introduces concepts related to organization behavior. Topics include leadership, team decision making and management, conflict resolution and negotiations, organizational culture, and organization change. Students will learn how to apply those concepts and theories to understanding and critically analyzing various individual, interpersonal, group, and organizational management processes.

Restricted to Innovation and Entrepreneurship Minors.

BL01	Nicole Coomber **Meets October 19, 2015 - December 11, 2015** Tu 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) SQH 1120 ONLINE
BL02	Nicole Coomber **Meets October 19, 2015 - December 11, 2015** Th 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) KEY 0106 ONLINE
BL03	Nicole Coomber **Meets October 19, 2015 - December 11, 2015** Tu 5:00pm - 6:15pm Class time/details on ELMs	Seats (Total: 60) SQH 1120 ONLINE

BMGT397 **Mentoring Design and Quality Teams**

Credits: 3 Grading Method: Regular

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

Restricted to QUEST program students. Also offered as ENES397.

0101	Pamela Armstrong W 6:00pm - 7:00pm W 7:00pm - 8:50pm	Seats (Total: 16) VMH 1407 VMH 1415

BMGT398 **Individual Study in Business and Management**

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398A **Individual Study in Business and Management; Internship**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Restricted to Smith School of Business students. Interested students should contact Erin Fields Saddler (esaddler@rhsmith.umd.edu) for details and permission.

0101	Jeffrey Kudisch, Erin Saddler Contact instructor or department for details.	Seats (Total: 25)
SG91	Erin Saddler, Jeffrey Kudisch Contact instructor or department for details.	Seats (Total: 10)

BMGT398C **Individual Study in Business and Management; Undergraduate Teaching Scholars Training**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Restricted to Accounting Teaching Scholars (FPTS).

0101	Progyan Basu Contact instructor or department for details.	Seats (Total: 19)

BMGT398T **Individual Study in Business and Management; The External Transfer Student in Smith**

(Perm req)

Credits: 1 Grading Method: Regular

Restricted to incoming Fall 2015 Smith School External Transfer students only.

0101	Evan Riddle	Seats (Total: 30)
	Meets August 31, 2015 - October 21, 2015	
	Tu 5:00pm - 6:30pm	VMH 1411

BMGT398W **Individual Study in Business and Management; Junior Wall Street Fellows.**

(Perm req)

Credits: 1 Grading Method: Regular

Restricted to students in the Smith School's Junior Wall Street Fellows programs.

FP01	Julie Pavlovsky	Seats (Total: 18)
	Tu 3:30pm - 4:45pm	VMH 1307

BMGT398X **Individual Study in Business and Management; Schilit Scholars in Accounting**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Restricted to students in the Schilit Scholars Program.

0101	Progyan Basu	Seats (Total: 5)
	Contact instructor or department for details.	

BMGT402 **Database Systems**

Credits: 3 Grading Method: Regular

Recommended: BMGT302.

The fundamentals of database management systems (DBMS), data models, query processing, and data warehouses, and their application in the development of business information systems will be covered. An important goal of this course is to understand the value of information resources and information management challenges within an organization.

Restricted to BMGT majors and Business Analytics minors with 72 credit hours completed.

0101	Woei-Jyh Lee	Seats (Total: 31)	
	TuTh 2:00pm - 3:15pm	VMH 1311	
	Tu 5:00pm - 5:50pm	VMH 1311	Lab

0201	Woei-Jyh Lee MW 9:30am - 10:45am Tu 6:00pm - 6:50pm	Seats (Total: 31) VMH 1311 VMH 1311	 Lab
0301	Woei-Jyh Lee TuTh 12:30pm - 1:45pm Tu 7:00pm - 7:50pm	Seats (Total: 31) VMH 1311 VMH 1311	 Lab

BMGT403 **Systems Analysis and Design**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or students who have taken courses with comparable content may contact the department. Recommended: BMGT302.

Techniques and tools applicable to the analysis and design of computer-based information systems. System life cycle, requirements analysis, logical design of databases and performance evaluation. Emphasis on case studies. Project required that involves the design, analysis and implementation of an information system.

Restricted to BMGT majors with 72 credit hours completed.

0101	Hassan Ibrahim MW 11:00am - 12:15pm	Seats (Total: 36) VMH 1311	
0201	Hassan Ibrahim M 7:00pm - 9:40pm	Seats (Total: 36) VMH 1311	
0301	Hassan Ibrahim MW 12:30pm - 1:45pm	Seats (Total: 36) VMH 1311	

BMGT406 **Developing Applications for the Web and Social Media**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT302. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

The design and development of Web applications and the underlying platforms and standards for Web application development will be covered. It will examine the phenomenon of social media, social networking and crowdsourcing and understand their use within organizations.

Restricted to BMGT majors with 72 credit hours completed.

0101	Louiqa Raschid MW 5:00pm - 6:50pm	Seats (Total: 18) VMH 1311

BMGT407 **Information Systems Projects**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT403. Restriction: Senior standing.

Senior capstone course for the decision and information sciences major. Collected knowledge from the DIS courses and application to significant problems of size and complexity. State-of-the-art research ideas and current business and industrial practices in information systems.

Restricted to Information Systems majors with 86 credit hours completed.

0101	Hassan Ibrahim MW 2:00pm - 3:15pm	Seats (Total: 31) VMH 1311
0201	Hassan Ibrahim W 7:00pm - 9:40pm	Seats (Total: 31) VMH 1311

BMGT411 **Ethics and Professionalism in Accounting**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT311. Restriction: Must be in Accounting program.

Analysis and discussion of issues relating to ethics and professionalism in accounting.

Restricted to Accounting majors with 86 credit hours completed.

0101	David Weber MW 11:00am - 12:15pm	Seats (Total: 27) VMH 1307
0201	Stephen Loeb MW 12:30pm - 1:45pm	Seats (Total: 27) VMH 1307
0301	Stephen Loeb MW 3:30pm - 4:45pm	Seats (Total: 27) VMH 1206

BMGT417 **Taxation of Corporations, Partnerships and Estates**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of corporations using the life-cycle approach-formation, operation, assessment, merger, reorganization and liquidation. Overviews of pass-through entities - partnerships and s-corporations -using the life-cycle approach, and the tax consequences of wealth transfers by individuals - gift and estate taxation. Both tax planning and compliance issues are addressed.

Restricted to Accounting majors with 84 credit hours completed.

0101	Samuel Handwerger MW 5:00pm - 6:15pm	Seats (Total: 27) VMH 1411
0201	Jeffrey Milton W 7:00pm - 9:40pm	Seats (Total: 27) VMH 1307

BMGT422 **Auditing Theory and Practice**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310; and must have completed or be concurrently enrolled in BMGT311.

A study of the independent accountant's attest function, generally accepted auditing standards, compliance and substantive tests and report forms and opinions.

0101	James McKinney MW 11:00am - 12:15pm *Restricted to Accounting majors.*	Seats (Total: 36) VMH 1411
0201	James McKinney MW 12:30pm - 1:45pm *Restricted to Accounting majors.*	Seats (Total: 36) VMH 1411
0301	Mary Keim MW 2:00pm - 3:15pm *Restricted to Accounting majors.*	Seats (Total: 36) VMH 1307
SG91	James McKinney TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 36) BLD2 2052
SG92	James McKinney TuTh 11:00am - 12:15pm *Restricted to BMGT-Shady Grove Seniors majoring in Accounting.*	Seats (Total: 36) BLD2 2052

BMGT424 **Advanced Accounting**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT311.

Advanced accounting theory applied to specialized topics and current problems. Emphasis on consolidated statements and partnership accounting.

Restricted to Accounting majors.

0101	Samuel Handwerger	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	VMH 1415

BMGT428C **Special Topics in Accounting; Research for the Professional Accountant**

Credits: 3 Grading Method: Regular

Selected advanced topics in Accounting.

Restricted to Accounting Majors. Prerequisite: BMGT 310, Recommend: BMGT 311 and BMGT 323

0101	James McKinney	Seats (Total: 27)
	MW 2:00pm - 3:15pm	VMH 1411

BMGT430 **Linear Statistical Models in Business**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or permission of BMGT-Robert H. Smith School of Business.

Model building involving an intensive study of the general linear stochastic model and the applications of this model to business problems. The model is derived in matrix form and this form is used to analyze both the regression and ANOVA formulations of the general linear model.

Restricted to BMGT majors with 84 credit hours completed or students in the Business Analytics minor .

0101	He Chen	Seats (Total: 42)
	TuTh 5:00pm - 6:15pm	VMH 1335

BMGT434 **Introduction to Optimization**

Credits: 3 Grading Method: Regular

Prerequisite: MATH220 or MATH140; or students who have taken courses with comparable content may contact the department. Recommended: MATH221; or MATH141. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Introduces concepts and techniques of operations research to model and solve business decision problems, focusing on optimization and commercially available software tools. Models include linear programming, the transportation and assignment problems, network flow models, and non-linear programming. Emphasis is placed on analyzing business scenarios and formulating associated decision models.

Restricted to BMGT majors, QUEST students, and Business Analytics minors minors with 72 credit hours completed.

0101	Weiming Zhu	Seats (Total: 36)
	MW 2:00pm - 3:15pm	VMH 1206

BMGT435 Business Process Simulation

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Develop and plan simulation studies, build simulation models with special purpose software, analyze and interpret the results. Extensive use of applications and real-world examples. The emphasis is on model formulation and the interpretation of results, rather than mathematical theory.

Restricted to BMGT majors or Business Analytics minors with 60 credits completed.

0101	Kazim Ruhi	Seats (Total: 34)
	TuTh 3:30pm - 4:45pm	VMH 1335

BMGT438A Special Topics in Operations Management; Applied Quantitative Analysis

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in operations management.

Course restricted to QUEST students. Also offered as ENES478A. Credit granted for BMGT438A or ENES478A.

0101	Kylie King	Seats (Total: 20)
	Th 5:00pm - 5:50pm	VMH 3330H

BMGT440 Advanced Financial Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.

Restricted to BMGT majors with 68 credit hours completed.

0101	Elinda Kiss MW 9:30am - 10:45am	Seats (Total: 41) VMH 1335
0201	David Kass TuTh 2:00pm - 3:15pm	Seats (Total: 41) VMH 1336
0301	David Kass TuTh 3:30pm - 4:45pm	Seats (Total: 41) VMH 1336
0401	Elinda Kiss MW 11:00am - 12:15pm	Seats (Total: 41) VMH 1335
0501	Elinda Kiss MW 5:00pm - 6:15pm	Seats (Total: 41) VMH 1335

BMGT441 **Fixed Income**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT448A or BMGT441. Formerly: BMGT448A.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

Restricted to Finance majors with 72 credit hours completed.

0101	Mark Taranto TuTh 11:00am - 12:15pm	Seats (Total: 43) VMH 1335

BMGT443 **Applied Equity Analysis and Portfolio Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343.

Study and application of the concepts, methods, models, and empirical findings to the analysis, valuation and selection of securities, especially common stock.

Restricted to BMGT majors with 84 credit hours completed.

0101	Joseph Perfetti MW 11:00am - 12:15pm	Seats (Total: 41) VMH 3505
0201	Joseph Perfetti MW 2:00pm - 3:15pm	Seats (Total: 41) VMH 3505
0301	Joseph Perfetti MW 3:30pm - 4:45pm	Seats (Total: 41) VMH 3505
0401	Joseph Perfetti MW 12:30pm - 1:45pm	Seats (Total: 41) VMH 3505

BMGT444 **Futures and Options Contracts**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343. Credit only granted for: BMGT444 and MATH424.

The institutional features and economic rationale underlying markets in futures and options. Hedging, speculation, structure of futures prices, interest rate futures, efficiency in futures markets and stock and commodity options.

Restricted to Finance majors with 84 credit hours completed.

0101	Christopher Ruemke M 7:00pm - 9:40pm	Seats (Total: 43) VMH 3505

BMGT445 **Banking and Financial Institutions**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Recommended: ECON330 or BMGT341.

Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized; also the management of liquidity reserves, investments for income and source of funds. Bank objectives, functions, policies, organization, structure, services and regulation are considered.

Restricted to Finance majors with 84 credit hours completed.

0101	Elinda Kiss MW 2:00pm - 3:15pm	Seats (Total: 42) VMH 1335

0201	Elinda Kiss MW 3:30pm - 4:45pm	Seats (Total: 42) VMH 1335

BMGT446 **International Finance**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Financial management from the perspective of the multinational corporation. Topics covered include the organization and functions of foreign exchange and international capital markets, international capital budgeting, financing foreign trade and designing a global financing strategy. Emphasis of the course is on how to manage exchange and political risks while maximizing benefits from global opportunity sets faced by the firm.

Restricted to Finance and International Business majors with 72 credit hours completed.

0101	Stefano Collina TuTh 9:30am - 10:45am	Seats (Total: 42) VMH 1307
0301	Ulrich Hewer TuTh 11:00am - 12:15pm	Seats (Total: 42) VMH 1412
0401	Ulrich Hewer TuTh 12:30pm - 1:45pm	Seats (Total: 42) VMH 1202

BMGT448E **Special Topics in Finance; Computational Finance**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT343. Finance majors with 72 credits and Junior Wall Street Fellows.

0101	Mark Taranto TuTh 9:30am - 10:45am	Seats (Total: 36) VMH 1335

BMGT448G **Special Topics in Finance; Quantitative Financial Analysis**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT230 and BMGT340. Pre-or Co-requisite: BMGT343. Restricted to Quantitative Finance Fellows.

FP01	Charles LaHaie	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	VMH 3505

BMGT448L **Special Topics in Finance; Hedge Fund Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT340. Restricted to Finance majors with 72 credit hours completed.

0101	Kenneth Brodkowitz	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	VMH 1412

BMGT449F **Investment Fund Management: Lemma Senbet Fund**

Credits: 3 Grading Method: Regular

The Lemma Senbet Fund is a year-long, advanced finance course available to undergraduate finance majors in their senior year. Ten to twelve students will be selected in the spring of their junior year to participate on the fund, two as portfolio managers and eight to ten as equity analysts. The course provides students with the opportunity to apply what they have learned in finance classes to actual investment decisions, through researching real companies and managing a portfolio of real money.

Restricted to Lemma Senbet Fund Fellows (FPSF).

FP01	Sarah Kroncke	Seats (Total: 10)
	TuTh 1:00pm - 3:00pm	VMH 3330H

BMGT450 **Integrated Marketing Communications**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT354 or BMGT450. Formerly: BMGT354.

In-depth study of coordinated marketing activities including advertising, sales promotion, Internet marketing, direct marketing and personal selling. Emphasizes strategic planning to effectively use these promotional tools to communicate with customers and meet marketing goals. Blends theory and current practice to provide managerial orientation.

Restricted to BMGT majors with 60 credit hours completed.

0101	Robert Fiddler	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	VMH 1415

0201	Robert Fiddler TuTh 2:00pm - 3:15pm	Seats (Total: 25) VMH 1415

BMGT451 **Consumer Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Recommended: PSYC100; and PSYC221.

Identifying buyer behavior concepts relevant to a specific marketing problem so that appropriate marketing decisions can be made. Conceptual frameworks are drawn from psychology, sociology, economics, and other social sciences to aid in understanding the behavior of ultimate and industrial buyers.

Restricted to Marketing majors with 68 credit hours completed.

0101	Yajin Wang MW 9:30am - 10:45am	Seats (Total: 31) VMH 1411
0201	Yajin Wang MW 8:00am - 9:15am	Seats (Total: 31) VMH 1411
0301	Marjorie Bonavia TuTh 9:30am - 10:45am	Seats (Total: 31) VMH 1412

BMGT452 **Marketing Research Methods**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350 and BMGT230.

Focuses on aiding marketing decision-making through exploratory, descriptive and casual research. Develops student skills in designing market research studies, including selection of data collection method, development of data collection instrument, sample design, collection and statistical analysis of data and reporting the results.

0101	Bo Zhou MW 12:30pm - 1:45pm *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 28) VMH 1415
0201	Bo Zhou MW 9:30am - 10:45am *Restricted to Marketing majors with 72 credit hours completed.*	Seats (Total: 28) VMH 1415

0301	Bo Zhou	Seats (Total: 28)
	MW 11:00am - 12:15pm	VMH 1415
	Restricted to Marketing majors with 72 credit hours completed.	
SG91	Anamaria Berea	Seats (Total: 38)
	TuTh 12:30pm - 1:45pm	BLD2 3012
	Restricted to BMGT-Shady Grove Seniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT454 **Global Marketing**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Marketing functions from the global executive's viewpoint, including coverage of global marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications and cost analysis. Consideration is given to the cultural, legal, financial and organizational aspects of global marketing.

0101	Amna Khawaja	Seats (Total: 36)
	TuTh 3:30pm - 4:45pm	VMH 1411
	Restricted to BMGT majors with 72 credit hours completed.	
SG91	M Fardanesh	Seats (Total: 31)
	TuTh 11:00am - 12:15pm	BLD2 3022
	Restricted to BMGT-Shady Grove Seniors majoring in Marketing and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	M Fardanesh	Seats (Total: 31)
	TuTh 12:30pm - 1:45pm	BLD2 3022
	Restricted to BMGT-Shady Grove Seniors majoring in Marketing and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT455 **Sales Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

The roles of the sales executive as a planner, manager of resources and marketing functions and recruiter, trainer, motivator and leader of field sales personnel. Techniques and sequence of problem analysis for selling and sales management decisions and to the practical framework in which these decisions take place. Teaching vehicles feature strong classroom interactions, cases, journal articles, research findings, guest sales managers, debates, and modern company practices.

Restricted to BMGT majors with 60 credit hours completed.

0101	Richard Newman TuTh 9:30am - 10:45am	Seats (Total: 36) VMH 1418

BMGT457 Marketing Policies and Strategies

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: BMGT350.

This capstone course ties together various marketing concepts using the fundamentals of strategic market planning as the framework. Application of these principles is accomplished by analyzing and discussing cases and by playing a marketing strategy computer simulation game. Analysis of current business articles to understand the link between theory and real-world problem solving.

Restricted to Marketing majors with 100 credit hours completed.

0101	Mary Harms TuTh 11:00am - 12:15pm	Seats (Total: 33) VMH 1307
0201	Mary Harms TuTh 12:30pm - 1:45pm	Seats (Total: 33) VMH 1307

BMGT458A Special Topics in Marketing; Design and Innovation in Marketing

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Mary Harms TuTh 5:00pm - 6:15pm	Seats (Total: 31) VMH 1336
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458B Special Topics in Marketing; Design Applications in Marketing and Branding

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Howard Bomstein	Seats (Total: 31)
	M 7:00pm - 9:40pm	VMH 1415
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT458I **Special Topics in Marketing; Organizational Communication in Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in marketing.

Contact department for information to register for this course.

BMGT458M **Special Topics in Marketing; Marketing for Non-profit Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in marketing.

Contact department for information to register for this course.

BMGT458Q **Special Topics in Marketing; Computer Graphics Workshop**

Credits: 3 Grading Method: Regular

Selected advanced topics in marketing.

FP01	Megan Rhee	Seats (Total: 15)
	W 7:00pm - 9:40pm	VMH 3507
	Restricted to students in the Strategic Design and Innovation Fellows program.	
FP02	Megan Rhee	Seats (Total: 15)
	W 4:00pm - 6:40pm	VMH 3507
	Restricted to students in the Strategic Design and Innovation Fellows program.	

BMGT461 **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, or BMGT461.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

0101	Oliver Schlake Tu 7:00pm - 9:40pm	Seats (Total: 18) VMH 1206
	Restricted to BMGT majors with 72 credit hours completed. Non-majors should register for BMGT 461N.	
SG91	Oliver Schlake Th 2:00pm - 4:40pm	Seats (Total: 36) BLD2 3022
	Restricted to BMGT-Shady Grove Seniors majoring in Accounting, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT461N **Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, or BMGT461.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Open to all non-BMGT majors with 72 credit hours completed. BMGT majors should register for BMGT 461.

0101	Oliver Schlake Tu 7:00pm - 9:40pm	Seats (Total: 18) VMH 1206

BMGT463 **Cross-cultural Challenges in Business**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

0101	Debra Shapiro MW 2:00pm - 3:15pm	Seats (Total: 40) VMH 1418
	Restricted to International Business majors and Management majors with 72 credit hours completed.	

SG91	Debra Shapiro TuTh 12:30pm - 1:45pm	Seats (Total: 36) BLD2 3052
	Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Debra Shapiro TuTh 2:00pm - 3:15pm	Seats (Total: 36) BLD2 3052
	Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

BMGT463F **Cross-cultural Challenges in Business**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

Restricted to Global Fellows students only.

FP01	Patricia Cleveland Tu 5:00pm - 7:40pm	Seats (Total: 35) VMH 3330H

BMGT465 **Business Plan For The New Venture**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361.

Each student focuses on the production of a business plan that will be accepted for an annual business plan competition. Business plans of sufficient quality may be submitted to attract financing. Topics include a deep review of business construction and its derivative short forms.

Registration is restricted to BMGT-Shady Grove Entrepreneurship majors with 86 credits. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.

SG91	Oliver Schlake	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	BLD2 3062
	Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduation BMGT students are not eligible to enroll at Shady Grove.	

BMGT466 **Global Business Strategy**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Focuses on the strategic challenges that directly result from and are associated with the globalization of industries and companies. Topics include drivers of industry globalization, difference between global and multi-domestic industry, global expansion strategies, sources of competitive advantage in a global context, and coordination of a company across a global network.

Restricted to International Business majors and Management majors with 72 credit hours completed.

0101	Mark Wellman	Seats (Total: 40)
	M 5:30pm - 8:10pm	TWS 1100

BMGT468T **Special Topics in Management and Organization; Creativity for Business Leaders and Entrepreneurs Outdoor Edition**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 45 credit hours completed.

0101	Oliver Schlake	Seats (Total: 31)
	M 8:00am - 10:45am	VMH 1206

BMGT468V **Special Topics in Management and Organization; Transformative Action: Effective Methods for Social Change**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

FP01	David Kirsch	Seats (Total: 18)
	TuTh 3:30pm - 4:45pm	VMH 3330H
	Restricted to students in the Social Innovation Fellows program.	

BMGT468Y **Special Topics in Management and Organization; Entrepreneurial Capitalism Around the World**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed.

0101	David Sicilia	Seats (Total: 36)
	MW 11:00am - 12:15pm	CCC 1205

BMGT468Z **Special Topics in Management and Organization; Create the Future through Systems Thinking and Design**

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed. Not open to stud ents in the QUEST Honors program.

0101	Jose Suarez	Seats (Total: 31)
	MW 11:00am - 12:15pm	VMH 1418

BMGT470 **Carrier Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT370.

The study of the wide range of issues facing managers in transportation This includes decisions on market entry, pricing, competitive responses, service levels, marketing strategies, capital structure, and growth objectives. Specific management decisions and overall strategies pursued by management are examined.

Restricted to Supply Chain Management majors.

0101	Leland Gardner	Seats (Total: 36)
	MW 3:30pm - 4:45pm	VMH 1336

BMGT471F **Seminar in Supply Chain Management: An Executive Perspective**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372. Formerly: BMGT488L and BMGT498L.

Designed to provide students intensive interaction with senior supply chain executives from a cross-section of industries. Executives will share their insights about leading competitive supply chains in the global marketplace and assist students in understanding how to develop supply chain career strategies. Students will research the competitive supply chain dynamics of each executive's industry and review/analyze their findings with the executive.

Restricted to Supply Chain Management Fellows (FPLT).

FP01	Dianne Fox, Geoffrey Milsom M 7:00pm - 9:40pm	Seats (Total: 31) VMH 1412

BMGT472 **Purchasing and Inbound Logistics**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

Analysis of the resupply activities of logistics management, including purchasing policies, transportation planning, and inventory control. Attention is directed toward total cost minimization and the establishment of a sustainable competitive advantage based on procurement.

Restricted to Supply Chain Management majors only.

0101	Isaac Elking MW 5:00pm - 6:15pm	Seats (Total: 31) VMH 1307

BMGT476 **Technology Applications in Supply Chain Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

An understanding of the role of technology in managing the supply chain Provides students with hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating that these systems result in supply chain cost reductions and service improvements.

Restricted to SCM and Information Systems majors.

0101	Alan Pritchard MW 9:30am - 10:45am	Seats (Total: 21) VMH 3522
0201	Alan Pritchard MW 11:00am - 12:15pm	Seats (Total: 21) VMH 3522

BMGT477 **International Supply Chain Management**

Credits: 3 Grading Method: Regular

The study of the importance of the supply chain management within a global context. Topics covered include: the structure, service, pricing and competitive relationships among international carriers and transport intermediaries as well as documentation, location decisions, international sourcing/distribution and management of inventory throughout the international supply chain.

Restricted to SCM majors and International Business majors.

0101	Koki Nagata MW 12:30pm - 1:45pm	Seats (Total: 39) VMH 1336
0201	Koki Nagata MW 2:00pm - 3:15pm	Seats (Total: 39) VMH 1336
0301	Koki Nagata MW 3:30pm - 4:45pm	Seats (Total: 39) VMH 1307

BMGT478B **Special Topics in Supply Chain Management; Green Supply Chain Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in supply chain management.

Restricted to Supply Chain Management majors.

0101	Taylor Wilkerson TuTh 5:00pm - 6:15pm	Seats (Total: 40) VMH 1303

BMGT484 **Electronic Marketing**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines the process of developing, implementing and analyzing strategies for successfully marketing a variety of existing and potential products and services on the Internet. Special attention devoted to the tools and techniques unique to the electronic media.

Restricted to BMGT majors with 60 credit hours completed.

0101	William Rand TuTh 2:00pm - 3:15pm *Restricted to BMGT majors with 60 credit hours completed.*	Seats (Total: 36) VMH 3505

0201	William Rand TuTh 3:30pm - 4:45pm *Restricted to BMGT majors with 60 credit hours completed.*	Seats (Total: 36) VMH 3505
SG91	Robert Fiddler TuTh 9:30am - 10:45am *Restricted to BMGT-Shady Grove Seniors majoring in Marketing Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 36) BLD2 2052

BMGT485 **Project Management**

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Modern project management techniques that are used by modern practicing professionals will be covered. Particular attention is given to the management of technology based systems and projects in a business enterprise. The topics covered include: defining project scope, alignment of projects with enterprise strategy, managing project cost, time and risks using tools such as CPM/PERT, and measuring project performance.

Restricted to BMGT and QUEST students with 72 credits completed. Students must pay $54.00 Lab fee.

0101	Hassan Ibrahim MW 3:30pm - 4:45pm	Seats (Total: 40) VMH 1202

BMGT488A **Special Topics in Logistics, Business, and Public Policy; Introduction to Sport Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in logistics, business and public policy.

Restricted to Sports Management Fellows (FPSM).

FP01	Gideon Mark W 7:00pm - 9:40pm	Seats (Total: 28) VMH 1303

BMGT488F **Special Topics in Logistics, Business, and Public Policy; Corporate Social Responsibility and Sustainable Business Practices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT488R **Special Topics in Logistics, Business, and Public Policy; International Business Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT488Y **Special Topics in Logistics, Business, and Public Policy; Corporate and Social Responsibility and Sustainable BusinessPractices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT490H **Quest Consulting and Innovation Practicum**

Credits: 4 Grading Method: Regular General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: ENES490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Restricted to Quest Program students.

0101	Jeffrey Herrmann, Kylie King	Seats (Total: 45)
	Tu 5:00pm - 7:40pm	VMH 1415
	Contact instructor or department for details.	

BMGT491 **Defining Consulting and Innovation Projects**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

Prerequiste: BMGT190H or ENES190H. Restricted to Quest.

0101	Kylie King	Seats (Total: 10)
	Tu 10:00am - 10:50am	VMH 1326
	F 10:00am - 11:40am	VMH 1326

BMGT493H **Honors Study**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BMGT-Robert H. Smith School of Business.

First semester of the senior year. The course is designed for honors students who have elected to conduct intensive study (independent or group). The student will work under the direct guidance of a faculty advisor and the Assistant Dean of Undergraduate Studies. They shall determine that the area of study is of a scope and intensity deserving of a candidate's attention. Formal written and/or oral reports on the study may be required by the faculty advisor.

Restricted to BMGT Honors students.

0101	Charles Olson	Seats (Total: 31)
	Th 3:30pm - 6:10pm	VMH 1307

BMGT495 **Strategic Management**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

Restricted to BMGT seniors with 95 credit hours completed.

0101	Clarence Wesley	Seats (Total: 31)
	MW 9:30am - 10:45am	VMH 1314
0201	James Spina	Seats (Total: 31)
	MW 11:00am - 12:15pm	VMH 1314

0301	Clarence Wesley MW 12:30pm - 1:45pm	Seats (Total: 31) VMH 1314
0401	Clarence Wesley MW 2:00pm - 3:15pm	Seats (Total: 31) VMH 1314
0501	Avinash Mainkar MW 3:30pm - 4:45pm	Seats (Total: 31) VMH 1314
0601	Avinash Mainkar MW 5:00pm - 6:15pm	Seats (Total: 31) VMH 1314
0701	David Kressler TuTh 11:00am - 12:15pm	Seats (Total: 31) VMH 1314
0801	David Kressler TuTh 12:30pm - 1:45pm	Seats (Total: 31) VMH 1314
0901	Protiti Dastidar TuTh 2:00pm - 3:15pm	Seats (Total: 31) VMH 1314
1001	Nina Sirola TuTh 3:30pm - 4:45pm	Seats (Total: 31) VMH 1314

BMGT496 **Business Ethics and Society**

Credits: 3 Grading Method: Regular

Prerequisite: 1 course in BMGT; or permission of BMGT-Robert H. Smith School of Business.

A study of the standards of business conduct, morals and values as well as the role of business in society with consideration of the sometimes conflicting interests of and claims on the firm and its objectives. Emphasizes a strategic approach by business to the management of its external environment.

0101	Brian Nelson TuTh 2:00pm - 3:15pm *Restricted to BMGT majors with 53 credit hours completed.*	Seats (Total: 36) VMH 2203

SG91	Jennifer Gershberg TuTh 9:30am - 10:45am	Seats (Total: 36) BLD2 3022

Restricted to BMGT-Shady Grove Seniors majoring in Entrepreneurship. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.

BMGT498L **Special Topics in Business and Management; Innovating the Higher Education Business Model**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in business and management designed to meet the changing needs and interests of students and faculty.

Innovo Scholars is a new program offering an elite group of students the opportunity to participate in the innovation of teaching and learning at Smith. In addition to completing normal teaching assistant activities, the Scholars will be responsible for designing and implementing improvements to an existing Smith course or program.

0101	Sandra Loughlin Th 5:00pm - 6:50pm Contact instructor or department for details.	Seats (Total: 30) VMH 3332

BMGT499G **Advanced Business Topics; Maryland Social Entrepreneur Corps II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Course will delve deeply into a specific business topic. Based on experience and knowledge from undergraduate core business classes, students will examine a particular subject from various angles.

Also offered as AMST499D. Credit granted for BMGT499G or AMST499D. Restricted to students participating in the Maryland Social Entrepreneur Corps program. Participating students will be automatically enrolled in the course by Education Abroad. For more information about the program, please contact Jennifer Precht in Education Abroad (jprecht@umd.edu).

Contact department for information to register for this course.

BMGT808G **Special Topics in Information Systems; Applied Microeconomics**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Kislaya Prasad Th 2:00pm - 4:40pm	Seats (Total: 12) VMH 2509

BMGT808R **Special Topics in Information Systems; Research Seminar in Decision, Operations and Information Technologies**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Il-Horn Hann	Seats (Total: 12)
	Contact instructor or department for details.	

BMGT818D **Special Topics in Accounting and Information Assurance; An Introduction to Research Topics and Methodologies in Accounting**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Accounting and Information Assurance doctoral field of study.

0101	Nicholas Seybert	Seats (Total: 12)
	Contact instructor or department for details.	

BMGT828 **Independent Study in Business and Management**

Credits: 1-9 Grading Method: Regular

Contact department for information to register for this course.

BMGT830 **Operations Research: Linear Programming**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH240; or students who have taken courses with comparable content may contact the department; or permission of BMGT-Robert H. Smith School of Business.

Concepts and applications of linear programming models, theoretical development of the simplex algorithm, and primal-dual problems and theory.

0101	Subramanian Raghavan	Seats (Total: 25)
	MW 2:00pm - 3:15pm	VMH 1415

BMGT834 **Operations Research: Probabilistic Models**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH241; and (STAT400; or students who have taken courses with comparable content may contact the department). Or permission of BMGT-Robert H. Smith School of Business.

Theoretical foundations for the construction, optimization, and applications of probabilistic models. Queuing theory, inventory theory, Markov processes, renewal theory, and stochastic linear programming.

0101	Michael Fu	Seats (Total: 20)
	F 2:00pm - 4:40pm	VMH 1336

BMGT836 **Applied Regression Models**

Credits: 3 Grading Method: Regular

Recommended: It is assumed that the student has taken a first course in statistics and is familiar with the content of such course including interval estimation and hypothesis testing.

An introduction to regression models used in business research. Topics include: simple and multiple regression, diagnostics for checking model adequacy, transformations, polynomial models, indicator variables, multicollinearity, variable selection, times series data, generalized linear models, implementation using statistical software, and application to research questions.

0101	Francis Alt	Seats (Total: 12)
	Tu 9:00am - 11:30am	VMH 3332

BMGT838R **Special Topics in Operations Management/Management Science; Research Seminar in Decision, Operations and Information Technologies**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Operations Management/Management Science doctoral field of study.

0101	Wedad Elmaghraby	Seats (Total: 12)
	Contact instructor or department for details.	

BMGT840 **Seminar in Financial Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BMGT-Robert H. Smith School of Business.

Seminar in selected classic and current theoretical and empirical research in the foundations of finance.

0101	Yajun Wang	Seats (Total: 12)
	Tu 4:00pm - 6:40pm	VMH 2509

BMGT848A **Special Topics in Finance; Financial Research Methods**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Finance doctoral field of study.

0101	Laurent Fresard	Seats (Total: 12)
	Meets August 31, 2015 - October 12, 2015	
	F 8:00am - 10:00am	VMH 3332

BMGT848F **Special Topics in Finance; Workshop in Finance Research**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Finance doctoral field of study.

0101	Maria Bustamante, Yajun Wang	Seats (Total: 12)
	F 9:00am - 12:00pm	VMH 1333

BMGT858C **Special Topics in Marketing; Consumer Behavior**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Amna Khawaja	Seats (Total: 12)
	M 1:30pm - 4:00pm	VMH 2509

BMGT858P **Special Topics in Marketing; Marketing Models**

Credits: 3 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Pallassana Kannan	Seats (Total: 12)
	W 1:30pm - 4:00pm	VMH 4535

BMGT858R **Special Topics in Marketing; Marketing Research Seminar**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Marketing doctoral field of study.

0101	Bo Zhou	Seats (Total: 12)
	F 10:00am - 12:30pm	VMH 1520

BMGT868C **Special Topics in Organizational Behavior/Human Resource Management; Career and Professionalization Workshop in Management and Organization**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Gilad Chen, Evan Starr	Seats (Total: 30)
	Contact instructor or department for details.	

BMGT868K **Special Topics in Organizational Behavior/Human Resource Management; Seminar in Motivation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Debra Shapiro	Seats (Total: 10)
	Meets October 19, 2015 - December 11, 2015	
	M 9:25am - 1:00pm	VMH 4535

BMGT868L **Special Topics in Organizational Behavior/Human Resource Management; Seminar in Leadership**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Vijaya Venkataramani **Meets August 31, 2015 - October 16, 2015** Th 9:25am - 1:00pm	Seats (Total: 10) VMH 4534

BMGT868P **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Management Presentations**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Subrahmaniam Tangirala W 11:00am - 12:30pm	Seats (Total: 10) VMH 2509

BMGT868R **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Research Methods Foundation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

Course restricted to Business Ph.D. students. Other interested students may contact the instructor to request permission.

0101	Gilad Chen **Meets August 31, 2015 - October 16, 2015** Tu 9:00am - 12:35pm	Seats (Total: 12) VMH 4534

BMGT878C **Special Topics in Strategic Management and Entrepreneurship; Cross Disciplinary Workshop**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Cristian Dezso, Marko Pitesa, Waverly Ding Th 11:00am - 12:30pm	Seats (Total: 12) VMH 2505

BMGT878F **Special Topics in Strategic Management and Entrepreneurship; Sociological Foundations**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Waverly Ding	Seats (Total: 10)
	Meets October 19, 2015 - December 11, 2015	
	M 1:00pm - 4:40pm	VMH 4534

BMGT878P **Special Topics in Strategic Management and Entrepreneurship; Strategy and Entrepreneurship PhD Presentations**

Credits: 1 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Rajshree Tronetti, David Waguespack	Seats (Total: 12)
	Th 8:45am - 10:15am	VMH 2509

BMGT878R **Special Topics in Strategic Management and Entrepreneurship; Straegy and Entrepreneurship Research Methods Foundation**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	David Waguespack	Seats (Total: 12)
	Meets October 19, 2015 - December 11, 2015	
	Tu 9:00am - 12:35pm	VMH 4534

BMGT878T **Special Topics in Strategic Management and Entrepreneurship; Organizational Theory**

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	David Kirsch	Seats (Total: 10)
	Meets August 31, 2015 - October 16, 2015	
	M 1:00pm - 4:40pm	VMH 4534

BMGT888T **Special Topics in Supply Chain Management; Transportation Economics**

Credits: 3 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Robert Windle	Seats (Total: 10)
	Contact instructor or department for details.	

BMGT888W **Special Topics in Supply Chain Management; Workshop in Supply Chain Management**

Credits: 1 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Curtis Grimm	Seats (Total: 12)
	F 1:00pm - 2:30pm	VMH 2509

BMGT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BMGT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BSCI Biological Sciences Program Fall 2015

BSCI courses are offered by the Biological Science Program and individual College of Computer, Mathematical and Natural Sciences departments, as indicated. The sponsoring department for each course is provided in the course listing. Consult the sponsoring department if you have questions about an individual course (sponsoring departments BIOL - Department of Biology, 2227 Biol-Psyc Building; BSCI - Biological Sciences Program, 1322 Symons Hall; CBMG - Department of Cell Biology and Molecular Genetics, 1219 H.J. Patterson Building, ENTM - Entomology, 4112 PLS Building). Registration of BSCI course sections which begin with "SEF" is restricted to students admitted into the Science in the Evening Program, administered through the Office of Extended Studies. For complete information, visit the OES website, email oes@umd.edu, or call 301-405-7762. The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to consult the instructor prior to course enrollment to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any are available. The College of Computer, Mathematical and Natural Sciences enforces . course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Lab start dates will be posted on the Biological Sciences Program web page.*

BSCI105 **Principles of Biology I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

Students without the math pre-requisite will be administratively dropped. (Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

5016	David Kirschtel MWF 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 23) MMH 1400 HJP 1236	Lab
5022	David Kirschtel MWF 9:00am - 9:50am Tu 8:00am - 10:50am	Seats (Total: 23) MMH 1400 HJP 1236	Lab
5050	David Kirschtel MWF 9:00am - 9:50am W 2:00pm - 4:50pm	Seats (Total: 23) MMH 1400 HJP 1226	Lab
5051	David Kirschtel MWF 9:00am - 9:50am W 2:00pm - 4:50pm	Seats (Total: 23) MMH 1400 HJP 1235	Lab
5120	Michael Keller MWF 11:00am - 11:50am Tu 8:00am - 10:50am	Seats (Total: 23) BRB 1101 HJP 1226	Lab

5121	Michael Keller MWF 11:00am - 11:50am Tu 8:00am - 10:50am	Seats (Total: 23) BRB 1101 HJP 1235	 Lab
5124	Michael Keller MWF 11:00am - 11:50am Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 HJP 1226	 Lab
5125	Michael Keller MWF 11:00am - 11:50am Tu 11:00am - 1:50pm	Seats (Total: 23) BRB 1101 HJP 1235	 Lab
5130	Michael Keller MWF 11:00am - 11:50am Tu 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 1226	 Lab
5166	Michael Keller MWF 11:00am - 11:50am Th 11:00am - 1:50pm	Seats (Total: 23) BRB 1101 HJP 1236	 Lab
5310	Norma Allewell MWF 10:00am - 10:50am M 11:00am - 1:50pm	Seats (Total: 23) JMZ 0220 HJP 1226	 Lab
5311	Norma Allewell MWF 10:00am - 10:50am M 11:00am - 1:50pm	Seats (Total: 23) JMZ 0220 HJP 1235	 Lab
5314	Norma Allewell MWF 10:00am - 10:50am M 2:00pm - 4:50pm	Seats (Total: 23) JMZ 0220 HJP 1226	 Lab
5332	Norma Allewell MWF 10:00am - 10:50am Tu 2:00pm - 4:50pm	Seats (Total: 23) JMZ 0220 HJP 1236	 Lab
5352	Norma Allewell MWF 10:00am - 10:50am W 2:00pm - 4:50pm	Seats (Total: 23) JMZ 0220 HJP 1236	 Lab

5355	Norma Allewell MWF 10:00am - 10:50am W 6:00pm - 8:50pm	Seats (Total: 23) JMZ 0220 HJP 1235	Lab
5416	Michael Keller MWF 2:00pm - 2:50pm M 6:00pm - 8:50pm	Seats (Total: 23) EGR 1202 HJP 1236	Lab
5426	Michael Keller MWF 2:00pm - 2:50pm Tu 11:00am - 1:50pm	Seats (Total: 23) EGR 1202 HJP 1236	Lab
5445	Michael Keller MWF 2:00pm - 2:50pm W 11:00am - 1:50pm	Seats (Total: 23) EGR 1202 HJP 1235	Lab
5456	Michael Keller MWF 2:00pm - 2:50pm W 6:00pm - 8:50pm	Seats (Total: 23) EGR 1202 HJP 1236	Lab
5464	Michael Keller MWF 2:00pm - 2:50pm Th 11:00am - 1:50pm	Seats (Total: 23) EGR 1202 HJP 1235	Lab
5465	Michael Keller MWF 2:00pm - 2:50pm Th 11:00am - 1:50pm	Seats (Total: 23) EGR 1202 HJP 1226	Lab
5512	Reid Compton TuTh 12:30pm - 1:45pm M 11:00am - 1:50pm	Seats (Total: 23) PLS 1140 HJP 1236	Lab
5560	Reid Compton TuTh 12:30pm - 1:45pm Tu 8:00am - 10:50am	Seats (Total: 23) PLS 1140 Location: TBA	Lab
5571	Reid Compton TuTh 12:30pm - 1:45pm Th 2:00pm - 4:50pm	Seats (Total: 23) PLS 1140 HJP 1235	Lab

FC01	Michael Keller MW 4:30pm - 5:45pm F 8:00am - 10:50am	Seats (Total: 23) MMH 1400 HJP 1226	Lab
	Restricted to students in Freshmen Connection.		
FC02	Michael Keller MW 4:30pm - 5:45pm F 8:00am - 10:50am	Seats (Total: 23) MMH 1400 HJP 1235	Lab
	Restricted to students in Freshmen Connection.		
FC03	Michael Keller MW 4:30pm - 5:45pm F 8:00am - 10:50am	Seats (Total: 23) MMH 1400 HJP 1236	Lab
	Restricted to students in Freshmen Connection.		
FC04	Michael Keller MW 4:30pm - 5:45pm W 6:00pm - 8:50pm	Seats (Total: 23) MMH 1400 HJP 1226	Lab
	Restricted to students in Freshmen Connection.		
FC05	Michael Keller MW 4:30pm - 5:45pm M 6:00pm - 8:50pm	Seats (Total: 23) MMH 1400 HJP 1226	Lab
	Restricted to students in Freshmen Connection.		
FC06	Michael Keller MW 4:30pm - 5:45pm M 6:00pm - 8:50pm	Seats (Total: 23) MMH 1400 HJP 1235	Lab
	Restricted to students in Freshmen Connection.		
SEF1	James Sniezek Tu 6:00pm - 9:00pm Th 6:00pm - 9:00pm	Seats (Total: 24) PLS 1130 HJP 1226	Lab
	Restricted to students in the SIE Program. Click here for more information.		

BSCI105M **Principles of Biology I**

(Perm req) | Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI). BSCI105M is intended for students repeating BSCI105 and who have an 80% or higher grade in the BSCI105 lab in their previous attempt. In BSCI105M students retake the lecture portion of the course only. The lab grade from the previous attempt is used in calculation of the BSCI105M grade. The previous attempt must be within 12 months of registration for BSCI105M.

5090	David Kirschtel MWF 9:00am - 9:50am	Seats (Total: 5) MMH 1400
5190	Michael Keller MWF 11:00am - 11:50am	Seats (Total: 5) BRB 1101
5393	Norma Allewell MWF 10:00am - 10:50am	Seats (Total: 5) JMZ 0220

BSCI105U **Principles of Biology I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

Students without the math pre-requisite will be administratively dropped .

Contact department for information to register for this course.

BSCI106 **Principles of Biology II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

Students without the math pre-requisite will be administratively dropped. (Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

6125	Marcia Shofner MWF 9:00am - 9:50am M 5:00pm - 7:50pm	Seats (Total: 23) HJP 0226 HJP 3217	 Lab
6134	Marcia Shofner MWF 9:00am - 9:50am Tu 11:00am - 1:50pm	Seats (Total: 23) HJP 0226 HJP 3211	 Lab
6155	Marcia Shofner MWF 9:00am - 9:50am W 11:00am - 1:50pm	Seats (Total: 23) HJP 0226 HJP 3217	 Lab
6181	Marcia Shofner MWF 9:00am - 9:50am Th 2:00pm - 4:50pm *This section restricted to BioFIRE students.*	Seats (Total: 23) HJP 0226 HJP 3211	 Lab
6326	Jeffrey Firestone MWF 10:00am - 10:50am M 5:00pm - 7:50pm	Seats (Total: 23) HJP 0226 HJP 3211	 Lab
6346	Jeffrey Firestone MWF 10:00am - 10:50am Tu 5:00pm - 7:50pm	Seats (Total: 23) HJP 0226 HJP 3211	 Lab
6362	Jeffrey Firestone MWF 10:00am - 10:50am W 2:00pm - 4:50pm	Seats (Total: 23) HJP 0226 HJP 3217	 Lab
6415	Alexandra Bely TuTh 2:00pm - 3:15pm M 11:00am - 1:50pm	Seats (Total: 23) HJP 0226 HJP 3217	 Lab
6464	Alexandra Bely TuTh 2:00pm - 3:15pm W 5:00pm - 7:50pm	Seats (Total: 23) HJP 0226 HJP 3211	 Lab
6472	Alexandra Bely TuTh 2:00pm - 3:15pm Th 8:00am - 10:50am	Seats (Total: 23) HJP 0226 HJP 3217	 Lab

6531	Marcia Shofner MWF 1:00pm - 1:50pm Tu 8:00am - 10:50am	Seats (Total: 23) EGR 1202 HJP 3211	 Lab
6536	Marcia Shofner MWF 1:00pm - 1:50pm Tu 11:00am - 1:50pm	Seats (Total: 23) EGR 1202 HJP 3217	 Lab
6576	Marcia Shofner MWF 1:00pm - 1:50pm Th 8:00am - 10:50am	Seats (Total: 23) EGR 1202 HJP 3211	 Lab
6586	Marcia Shofner MWF 1:00pm - 1:50pm Th 11:00am - 1:50pm	Seats (Total: 23) EGR 1202 HJP 3211	 Lab
6656	Francisca Saavedra MWF 2:00pm - 2:50pm W 11:00am - 1:50pm	Seats (Total: 23) CHM 1407 HJP 3211	 Lab
6684	Francisca Saavedra MWF 2:00pm - 2:50pm Th 5:00pm - 7:50pm	Seats (Total: 23) CHM 1407 HJP 3211	 Lab

BSCI106C **Principles of Biology II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

Students without the math pre-requisite will be administratively dropped. (Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

6383	Jeffrey Firestone MWF 10:00am - 10:50am Th 2:00pm - 4:50pm	Seats (Total: 19) HJP 0226 HJP 3217	 Lab

6475	Alexandra Bely TuTh 2:00pm - 3:15pm Th 11:00am - 1:50pm	Seats (Total: 19) HJP 0226 HJP 3217	Lab
6541	Marcia Shofner MWF 1:00pm - 1:50pm Tu 2:00pm - 4:50pm	Seats (Total: 19) EGR 1202 HJP 3211	Lab
6642	Francisca Saavedra MWF 2:00pm - 2:50pm Tu 2:00pm - 4:50pm	Seats (Total: 19) CHM 1407 HJP 3217	Lab
6645	Francisca Saavedra MWF 2:00pm - 2:50pm Tu 5:00pm - 7:50pm	Seats (Total: 19) CHM 1407 HJP 3217	Lab
6665	Francisca Saavedra MWF 2:00pm - 2:50pm W 5:00pm - 7:50pm	Seats (Total: 19) CHM 1407 HJP 3217	Lab

BSCI106H **Principles of Biology II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

Students without the math pre-requisite will be administratively dropped. Students must pay a $40.00 laboratory materials fee.

6421	Alexandra Bely TuTh 2:00pm - 3:15pm M 2:00pm - 4:50pm	Seats (Total: 23) HJP 0226 HJP 3211	Lab

BSCI106M **Principles of Biology II**

(Perm req)

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

(Sponsoring Dept.: BSCI). BSCI 106 must be taken within twelve months of the semester in which BSCI 106M is taken. A student is eligible to take this course only if the lab scores received in BSCI 106 the last time it was taken totalled at least 80 percent of the maximum possible total. These scores will count for part of the grade in BSCI 106M.

Contact department for information to register for this course.

BSCI106S **Principles of Biology II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

Students without the math pre-requisite will be administratively dropped. (Sponsoring Dept.: BSCI). Restricted to College Park Scholars - Life Sciences. Students must pay a $40.00 laboratory materials fee.

6122	Marcia Shofner MWF 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 23) HJP 0226 HJP 3217	 Lab
6185	Marcia Shofner MWF 9:00am - 9:50am Th 5:00pm - 7:50pm	Seats (Total: 23) HJP 0226 HJP 3217	 Lab

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BSCI121 **Beekeeping**

Credits: 2 | Grading Method: Regular, Pass-Fail, Audit

Additional information: Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

A study of the life history, behavior and seasonal activities of the honeybee, its place in pollination of flowers with emphasis on plants of economic importance and bee lore in literature.

0101	Dennis vanEngelsdorp TuTh 9:30am - 10:30am	Seats (Total: 30) PLS 1115	

BSCI126 **Pollinators in Crisis**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: LS	General Education: DSNS, SCIS

We will dissect the pollinator crisis, and in the process learn about insects, about the interaction of organisms in complex ecosystems, and about the human-nature interface. Students will work in groups that specialize in an aspect of pollinator biology and their challenges. Instruction will target methods for collecting information, interpretation of scientific information and the professional presentation of findings.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	David Hawthorne TuTh 6:00pm - 7:15pm Tu 9:30am - 10:20am	Seats (Total: 20) PLS 1140 PLS 1161	 Discussion
0102	David Hawthorne TuTh 6:00pm - 7:15pm Tu 11:00am - 11:50am	Seats (Total: 20) PLS 1140 PLS 1161	 Discussion
0103	David Hawthorne TuTh 6:00pm - 7:15pm Th 3:30pm - 4:20pm	Seats (Total: 20) PLS 1140 PLS 1158	 Discussion
0104	David Hawthorne TuTh 6:00pm - 7:15pm Th 5:00pm - 5:50pm	Seats (Total: 20) PLS 1140 PLS 1158	 Discussion

BSCI135 **Amazing Green: Plants that Transformed the World**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: LL	General Education: DSNL, SCIS

An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.

Students must pay a $40.00 laboratory materials fee.

0101	Edgar Moctezuma TuTh 9:30am - 10:45am M 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab
0102	Edgar Moctezuma TuTh 9:30am - 10:45am Tu 12:00pm - 2:00pm	Seats (Total: 24) HJP 0226 HJP 3237	 Lab

0103	Edgar Moctezuma TuTh 9:30am - 10:45am W 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	Lab
0104	Edgar Moctezuma TuTh 9:30am - 10:45am Th 12:30pm - 2:30pm	Seats (Total: 24) HJP 0226 HJP 3237	Lab

BSCI189I **Beyond Race: Human Biological Diversity**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL, D | General Education: DSNL, DSNS, DSSP, DVUP, SCIS

Students must pay a $40.00 laboratory materials fee.

1003	Joelle Presson MWF 11:00am - 11:50am Tu 9:30am - 12:20pm	Seats (Total: 21) BPS 1250 HJP 3239	Lab
1005	Joelle Presson MWF 11:00am - 11:50am Tu 1:00pm - 3:50pm	Seats (Total: 21) BPS 1250 HJP 3239	Lab
1007	Joelle Presson MWF 11:00am - 11:50am Tu 4:00pm - 6:50pm	Seats (Total: 21) BPS 1250 HJP 3239	Lab
1009	Joelle Presson MWF 11:00am - 11:50am W 1:00pm - 3:50pm	Seats (Total: 21) BPS 1250 HJP 3239	Lab
1011	Joelle Presson MWF 11:00am - 11:50am W 4:00pm - 6:50pm	Seats (Total: 24) BPS 1250 HJP 3239	Lab

BSCI201 **Human Anatomy and Physiology I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL

Prerequisite: BSCI105; or students who have taken courses with comparable content may contact the department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, an sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Not acceptable for credit in any Biological Sciences major. (Sponsoring Dept.: BIOL). Students must pay a $40.00 laboratory materials fee.

0101	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0102	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm M 4:00pm - 6:00pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0103	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0104	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0105	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0106	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm W 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0107	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm W 7:00pm - 9:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0108	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0275	 Lab
0109	Justicia Opoku-Edusei MWF 12:00pm - 12:50pm F 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0275	 Lab

1101	Sara Lombardi TuTh 12:30pm - 1:45pm M 1:00pm - 3:50pm	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1102	Sara Lombardi TuTh 12:30pm - 1:45pm M 7:00pm - 9:50pm	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1103	Sara Lombardi TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1104	Sara Lombardi TuTh 12:30pm - 1:45pm W 9:00am - 11:50am	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1105	Sara Lombardi TuTh 12:30pm - 1:45pm W 1:00pm - 3:50pm	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1106	Sara Lombardi TuTh 12:30pm - 1:45pm Th 8:00am - 10:50am	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1107	Sara Lombardi TuTh 12:30pm - 1:45pm Th 2:00pm - 4:50pm	Seats (Total: 24) ARM 0135 BPS 0275	Lab
1108	Sara Lombardi TuTh 12:30pm - 1:45pm Th 6:00pm - 8:50pm	Seats (Total: 24) ARM 0135 BPS 0275	Lab

BSCI202 **Human Anatomy and Physiology II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI201; or permission of CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

Students must pay a $40.00 laboratory materials fee.

0101	Tammatha O'Brien TuTh 8:00am - 9:15am Th 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
0102	Tammatha O'Brien TuTh 8:00am - 9:15am M 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
0105	Tammatha O'Brien TuTh 8:00am - 9:15am Tu 9:30am - 12:20pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
0106	Tammatha O'Brien TuTh 8:00am - 9:15am Tu 1:00pm - 3:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
0109	Tammatha O'Brien TuTh 8:00am - 9:15am W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
0110	Tammatha O'Brien TuTh 8:00am - 9:15am W 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
0112	Tammatha O'Brien TuTh 8:00am - 9:15am F 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0201	 Lab
1101	Sara Lombardi TuTh 8:00am - 9:15am M 2:00pm - 4:50pm	Seats (Total: 24) HJP 0226 BPS 0201	 Lab
1102	Sara Lombardi TuTh 8:00am - 9:15am M 5:00pm - 7:50pm	Seats (Total: 24) HJP 0226 BPS 0201	 Lab
1103	Sara Lombardi TuTh 8:00am - 9:15am W 8:00am - 10:50am	Seats (Total: 24) HJP 0226 BPS 0201	 Lab

1104	Sara Lombardi TuTh 8:00am - 9:15am W 11:00am - 1:50pm	Seats (Total: 24) HJP 0226 BPS 0201	 Lab
1105	Sara Lombardi TuTh 8:00am - 9:15am Th 9:30am - 12:20pm	Seats (Total: 24) HJP 0226 BPS 0201	 Lab
1106	Sara Lombardi TuTh 8:00am - 9:15am Th 1:00pm - 3:50pm	Seats (Total: 24) HJP 0226 BPS 0201	 Lab
SEF1	Tammatha O'Brien Th 6:00pm - 8:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) PLS 1119 BPS 0201	 Lab
	Restricted to students in the SIE Program. Click here for more information.		

BSCI207 **Principles of Biology III - Organismal Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI106 and BSCI105; and must have completed or be concurrently enrolled in CHEM131.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

0101	Eric Haag, Karen Carleton MWF 2:00pm - 2:50pm	Seats (Total: 126) HJP 0226
0201	Leo Shapiro MWF 9:00am - 9:50am	Seats (Total: 100) BPS 1243
0301	Leo Shapiro MWF 12:00pm - 12:50pm	Seats (Total: 110) HJP 0226
0401	Karen Carleton, Eric Haag MWF 3:00pm - 3:50pm	Seats (Total: 110) HJP 0226

BSCI215 **Global Sustainability: A Biologist's Perspective**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: LS	General Education: DSNS, SCIS

Credit only granted for: BSCI205 or BSCI215.

An overview of basic ecological and evolutionary principles and how the relate to current global dilemmas such as overpopulation, pollution, preservation of biodiversity, and the ethics involved in these dilemmas.

0101	Keryn Gedan TuTh 9:30am - 10:45am	Seats (Total: 60) CHM 2201	

BSCI222 **Principles of Genetics**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit		

Prerequisite: CHEM131, CHEM132, BSCI106, and BSCI105. Or BSCI105; and must have completed two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

(Sponsoring Dept.: BSCI).

2121	Patricia Shields MWF 1:00pm - 1:50pm M 10:00am - 11:50am	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2122	Patricia Shields MWF 1:00pm - 1:50pm M 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2124	Patricia Shields MWF 1:00pm - 1:50pm Tu 10:00am - 11:50am	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2125	Patricia Shields MWF 1:00pm - 1:50pm Tu 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2130	Patricia Shields MWF 1:00pm - 1:50pm W 10:00am - 11:50am	Seats (Total: 23) BRB 1101 HJP 3233	Discussion

2132	Patricia Shields MWF 1:00pm - 1:50pm W 5:00pm - 6:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2137	Patricia Shields MWF 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3233	Discussion
2211	Thomas Kocher TuTh 11:00am - 12:15pm M 12:00pm - 1:50pm	Seats (Total: 23) HJP 0226 PLS 1162	Discussion
2215	Thomas Kocher TuTh 11:00am - 12:15pm Tu 2:00pm - 3:50pm	Seats (Total: 24) HJP 0226 HJP 3233	Discussion
2221	Thomas Kocher TuTh 11:00am - 12:15pm Tu 4:00pm - 5:50pm	Seats (Total: 24) HJP 0226 PLS 1184	Discussion
2231	Thomas Kocher TuTh 11:00am - 12:15pm Tu 6:00pm - 7:50pm	Seats (Total: 24) HJP 0226 PLS 1184	Discussion
2251	Thomas Kocher TuTh 11:00am - 12:15pm W 12:00pm - 1:50pm	Seats (Total: 23) HJP 0226 PLS 1158	Discussion
2261	Thomas Kocher TuTh 11:00am - 12:15pm W 7:00pm - 8:50pm	Seats (Total: 24) HJP 0226 PLS 1184	Discussion
2264	Thomas Kocher TuTh 11:00am - 12:15pm Th 8:00am - 9:50am	Seats (Total: 24) HJP 0226 HBK 0105	Discussion
2265	Thomas Kocher TuTh 11:00am - 12:15pm Th 2:00pm - 3:50pm	Seats (Total: 24) HJP 0226 PLS 1119	Discussion

2267	Thomas Kocher TuTh 11:00am - 12:15pm Th 4:00pm - 5:50pm	Seats (Total: 23) HJP 0226 PLS 1172	 Discussion
2271	Thomas Kocher TuTh 11:00am - 12:15pm Th 6:00pm - 7:50pm	Seats (Total: 24) HJP 0226 PLS 1180	 Discussion
SEF1	Keith Lampel Tu 6:00pm - 8:50pm Th 6:00pm - 7:50pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 23) PLS 1162 HJP 3233	 Discussion

BSCI223 **General Microbiology**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, SCIS

Prerequisite: BSCI105.

Fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry and biotechnology.

(Sponsoring Dept.: CBMG). Students must pay a $40.00 laboratory materials fee.

1101	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1201	 Lab
1106	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1206	 Lab
1121	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1201	 Lab
1126	John Buchner TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1206	 Lab

1201	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1206	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1221	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1301	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1305	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1306	John Buchner TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1321	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1325	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1326	John Buchner TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
2105	John Buchner TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1205	Lab

2205	John Buchner TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
2226	John Buchner TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
SEF1	David Rollins TuTh 6:00pm - 6:50pm TuTh 7:00pm - 9:00pm	Seats (Total: 18) MCB 1207 MCB 1201	Lab

BSCI279 **Supplemental Study; Supplemental Study in Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI279B **Supplemental Study; Strategies for Success**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

SG91	Annie Foster Ahmed, Beth Parent, Mary Gallagher M 10:30am - 11:25am	Seats (Total: 40) Location: TBA
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

BSCI279L **Supplemental Study; Biology I Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

Contact department for information to register for this course.

BSCI279N **Supplemental Study; Biology II Laboratory**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

Contact department for information to register for this course.

BSCI279P **Supplemental Study; Undergraduate Teaching Fellows Professional Development Seminar**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

0101	Francisca Saavedra Tu 5:00pm - 5:50pm	Seats (Total: 34) PLS 1130

BSCI279Q **Supplemental Study; Readings in Neurophysiology**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

0101	Ricardo Araneda, Daniel Butts, Patrick Kanold, Elizabeth Quinlan Contact instructor or department for details.	Seats (Total: 13)

BSCI279R **Supplemental Study; Undergraduate Research Rotation**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI279V **Supplemental Study; Evolution**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

Co-requisite: BSCI370. Credit cannot be applied to the requirements of any Biological Sciences Major.

0101	Sara Via Tu 8:30am - 9:20am	Seats (Total: 30) BPS 1232	

BSCI283 **Principles of Microbiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI207 and BSCI222. Credit only granted for: BSCI223 or BSCI283. Additional information: Priority given to BSCI, BCHM and CHEM majors.

Introduction to microorganisms designed for science majors. Genetic principles underlying microbial abilities; microbial structure-function relationships; metabolism, physiology, and ecology of microorganisms; interactions between microorganisms (including pathogens) and their hosts.

1225	Richard Stewart TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) EGR 0135 MCB 1205	 Lab
2125	Richard Stewart TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) EGR 0135 MCB 1205	 Lab

BSCI288 **Internship; Field Experience**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI288H **Internship**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

Contact department for information to register for this course.

BSCI289 **Off-Campus Internship**

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

Provides credit for off-campus research internships. This credit counts as elective toward graduation, but does not satisfy any Biological Sciences degree requirements (For information about research credit that does count toward Biological Sciences contact the Biological Sciences Program, room 1322 Symons Hall). The off-campus internship credit requires that a contract form be filed with the Director of Undergraduate Research and Internship Programs, Room 1313 Symons Hall, prior to the internship. The contract must be finalized and signed by the research supervisor at the end of the semester before credit will be awarded.

1110	Katerina Thompson Contact instructor or department for details.	Seats (Total: 10)

BSCI329 **Instructional Assistance Practicum**

(Perm req)

Credits: 1-2

Grading Method: Regular, Pass-Fail

Students serve as instructional assistants in selected undergraduate biology courses. Roles and responsibilities are determined on a course- specific basis and approved by the College Undergraduate Program Committee.

Prerequiste: permission of department. (Sponsoring Dept.: BIOL). Credit cannot be applied to the requirements of any Biological Sciences Major.

1016	Hilary Bierman Contact instructor or department for details.	Seats (Total: 10)
1060	Marco Colombini Contact instructor or department for details.	Seats (Total: 4)

BSCI330 **Cell Biology and Physiology**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131, CHEM132, and BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV, and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Ibrahim Ades MWF 9:00am - 9:50am M 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0102	Ibrahim Ades MWF 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0103	Ibrahim Ades MWF 9:00am - 9:50am Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0104	Ibrahim Ades MWF 9:00am - 9:50am Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0105	Ibrahim Ades MWF 9:00am - 9:50am W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0107	Ibrahim Ades MWF 9:00am - 9:50am W 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0108	Ibrahim Ades MWF 9:00am - 9:50am Th 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0109	Ibrahim Ades MWF 9:00am - 9:50am Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab

0111	Ibrahim Ades MWF 9:00am - 9:50am M 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
0114	Ibrahim Ades MWF 9:00am - 9:50am Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	 Lab
1101	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm M 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1102	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1103	Antony Jose, Kenneth Frauwirth TuTh 12:30pm - 1:45pm Tu 8:30am - 11:20am	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1104	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1105	Antony Jose, Kenneth Frauwirth TuTh 12:30pm - 1:45pm W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1106	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
1108	Kenneth Frauwirth, Antony Jose TuTh 12:30pm - 1:45pm W 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0213	 Lab
SEF1	Elizabeth Read-Connole Tu 6:30pm - 9:30pm Th 6:30pm - 9:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 24) PLS 1146 BPS 0207	 Lab

SG91	Beth Parent TuTh 11:00am - 12:15pm Tu 2:00pm - 4:50pm	Seats (Total: 24) Location: TBA BLD2 4012	Lab
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.		

BSCI330H **Cell Biology and Physiology**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131, CHEM132, and BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV and GENB. Restricted to students in the Integrated Life Science Honors program and permission of the instructor. Students must pay a $40.00 laboratory materials fee.

BL01	Kathryn Monzo, Byrn Quimby TuTh 9:30am - 10:45am Class time/details on ELMs Tu 2:00pm - 4:50pm	Seats (Total: 24) LPA 0100 ONLINE BPS 0207	Lab
	Blended Learning sections combine face-to-face and online interactions.		
BL02	Byrn Quimby, Kathryn Monzo TuTh 9:30am - 10:45am Class time/details on ELMs W 2:00pm - 4:50pm	Seats (Total: 24) LPA 0100 ONLINE BPS 0207	Lab
	Blended Learning sections combine face-to-face and online interactions.		

BSCI338A **Special Topics in Biology; Insect Compound Eye & Vision in Invertebrate Animals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequiste: BSCI353 The course will investigate, through original research papers, the structure, development, optics and physiological function of vision in insect and other invertebrate species. We will follow the evolution of vision in insects and explore how general principles of visual signal processing drove an increasing sophistication of eye structure and function. Wherever possible we will draw comparisions with the function and eyes in vertebrates and with human vision. Applicable towards Biological Sciences Specialization arease: PHNB, GENB cell biology/physiology category. Sponsoring Dept. BIOL.

0101	Richard Payne	Seats (Total: 30)	
	MF 9:00am - 9:50am W 9:00am - 9:50am	PLS 1119 BPS 1238	Discussion

BSCI338B **Special Topics in Biology; Marine Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Specialization Areas: GENB and ECEV.

0101	Marjorie Reaka	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BPS 1238

BSCI338D **Special Topics in Biology; Complexity of Cancer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338E **Special Topics in Biology; Neuroethology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI106 and BSCI353. Acceptable towards Biological Sciencecs Specialization Areas: PHNB, GENB. (Sponsoring Dept: BIOL).

0101	Catherine Carr	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	BPS 1236

BSCI338G **Special Topics in Biology; Seminar on Deregulated Cell Growth in Cancer and Drug Development**

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Pre-requisite: BSCI 330. Acceptable towards Biological Sciences Specialization Areas: PHNB and GENB. (Sponsoring Dept: BIOL).

0101	Ibrahim Ades	Seats (Total: 20)
	M 1:00pm - 2:40pm	PLS 1146

BSCI338I **Special Topics in Biology; Medical Biotechnology & Drug Development**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338J **Special Topics in Biology; Medical Exploration of HIV/AIDS**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338M **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338N **Special Topics in Biology; Disease of the Nervous System**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring DEPT: BIOL). Prerequisite: BSCI330. Acceptable toward Biological Sciences specialization areas: PHNB and GENB. An advanced course covering the neuranatomy, function and organization of the nervous system and its implication for pathology and disease.

0101	Quentin Gaudry	Seats (Total: 35)
	TuTh 8:00am - 9:15am	BPS 1238

BSCI338T **Special Topics in Biology; Scientific Readings in Physiological Adaptations to Extreme Environments**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Students will review the basic physiology relevant to the topic of the week, read, summarize and critique original research papers and reviews, and deliver a seminar style presentation on the topic as part of a three person team.

SEF1	William Higgins	Seats (Total: 15)
	Th 6:00pm - 9:00pm	BPS 1232
	Restricted to students in the SIE Program. Prerequisite: BSCI440 or BSCI330 and BSCI201 and BSCI202.	

BSCI338Z **Special Topics in Biology; Field Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept: BIOL). Cannot be used as credit toward the major requirements for any Biological Sciences major. Contact the Biology Department Undergraduate Office for course information.

Contact department for information to register for this course.

BSCI339C **Selected Topics in Biology; Cell Biology Lab**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisites: BSCI420. Credit will be granted for BSCI339C or BSCI421. Students must pay a $40.00 lab materials fee. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB.

0101	Hadiya Woodham	Seats (Total: 3)	
	Tu 2:00pm - 6:00pm	PLS 1171	Lab

BSCI339D **Selected Topics in Biology; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI353. Applicable towards Biological Sciences Specialization Areas: GENB, PHNB. Sponsoring Dept. (BIOL).

0101	Ricardo Araneda	Seats (Total: 10)
	MW 2:00pm - 3:15pm	BPS 1230

BSCI339G **Selected Topics in Biology; Advanced Physiology**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Sponsoring Dept. BIOL. Applicable towards Biological Sciences Specialization areas: PHNB. Prerequisite: permission of department or students who have completed BSCI440. Mammalian Physiology and want to explore how organ systems are designed to solve fundamental physiological problems. Diverse examples, from comparative physiology to clinical cases, will be considered to illustrate basic principles of systems physiology.

0101	Joshua Singer	Seats (Total: 19)
	Tu 2:00pm - 3:50pm	BPS 2249

BSCI339I **Selected Topics in Biology; Cellular Mechanisms of Aging and Disease**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI 330. This course will explore the cellular mechanisms underlying aging and a variety of noninfectious diseases and disorders ranging from diabetes and obesity to Alzheimer's and variosu cancers. In addition to lectures,students will read and discuss relevant primary and secondary literature. Assessments will include student-led discussion of primary literature and group presentations of disease topics. Acceptables towards Biological Sciences Specialization Areas: PHNB, CEBG cell biology category, GENB cell biology/physiology category.

0101	Hadiya Woodham	Seats (Total: 30)
	TuTh 4:00pm - 5:15pm	BPS 1234

BSCI348 **Special Topics in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). May be repeated but only 3 credits may be applied to major requirements.

Contact department for information to register for this course.

BSCI348A **Special Topics in Cell Biology and Molecular Genetics; Microbiology Undergraduate Teaching Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students will act as Undergraduate Teaching Assistants for BSCI223. Prerequisite: A or B in BSCI223 and permission of instructor. Students must be available for one of the BSCI223 lab periods. Students interested in this teaching/leadership opportunity should contact Dr. Richard Stewart for application information: This course is applicable for the Enrichment credits required of all Biological Sciences students in majors with 0404 codes. For others this is elective credit. Formerly: BSCI348U.

0101	John Buchner, Richard Stewart	Seats (Total: 25)
	F 8:00am - 8:50am	PLS 1129
	Contact instructor or department for details.	

BSCI348I **Special Topics in Cell Biology and Molecular Genetics; Scientific Readings in Infectious Disease Processes**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students will learn about this cutting edge discipline, read original research papers in these disciplines, and be guided toward how to interpret and critique these research papers.

SEF1	Volker Briken	Seats (Total: 15)
	Tu 6:00pm - 9:00pm	PLS 1168
	Restricted to students in the SIE Program.	

BSCI348P **Special Topics in Cell Biology and Molecular Genetics; Introductory Biology Curriculum and Instruction Practicum**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). Students will learn about methodologies and curriculum tools applicable to the field of undergraduate science education; the practicum component of the course will allow students to directly apply such innovative approaches through an undergraduate teaching and learning assistantship (UTLA) in conjunction with BSCI105. Prerequisite: A or B in BSCI105 and permission of instructor. Student must be available for one of the BSCI105 lecture periods (MWF 10-10:50). Students interested in this teaching/leadership opportunity should contact either Dr. Patricia Shields (pshields@umd.edu) for further information. This course is applicable for the Enrichment credits required of all Biological students in majors with 0404 codes. For others this is an elective credit.

0201	Patricia Shields	Seats (Total: 20)
	Contact instructor or department for details.	

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

This course is an opportunity for students interested in microbiology to pursue a research project in an off-campus lab. The student must see the instructor and complete an information sheet found on the web site, prior to enrolling in the course.

0101	David Straney	Seats (Total: 8)
	Contact instructor or department for details.	

BSCI353 **Principles of Neuroscience**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (BSCI207, BSCI330). Corequisite: PHYS122, PHYS142, or PHYS132.

Principles of nervous system function, ranging from molecular and cellular basis of neuron function through nervous system integration.

0101	Richard Payne, Elizabeth Quinlan	Seats (Total: 180)
	TuTh 12:30pm - 1:45pm	HJP 0226

SG91	David Sandstrom MW 11:00am - 12:15pm	Seats (Total: 40) Location: TBA	
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.		

BSCI360 **Principles of Animal Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222, BSCI106, and BSCI105.

Study of animal behavior with emphasis on its evolution and function. Topics include genetic basis of behavior, communication, aggression, foraging, cooperation, mate selection, and relevance for conservation.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: PHNB, and GENB.

0101	Gerald Wilkinson MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 15) PLS 1130 BPS 2249	Discussion
0102	Gerald Wilkinson MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 15) PLS 1130 BPS 2249	Discussion
0103	Gerald Wilkinson MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 15) PLS 1130 BPS 2249	Discussion
0104	Gerald Wilkinson MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 15) PLS 1130 BPS 1230	Discussion

BSCI361 **Principles of Ecology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: BSCI106; and (MATH130 or MATH140).

Basic principles of population, community, and ecosystem ecology. Use o these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB.

0101	Nathan Kraft TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 25) MCB 1207 PLS 1115	Discussion
0102	Nathan Kraft TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 25) MCB 1207 SYM 0209	Discussion
0103	Nathan Kraft TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 25) MCB 1207 SYM 0209	Discussion

BSCI370 **Principles of Evolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI106.

Understanding evolutionary processes in a natural and human environment including adaptation; DNA sequence, protein, and genome evolution; evolution of developmental mechanisms; mechanisms of evolutionary change (mutation, natural selection, drift); epidemiology; coevolution and biological control; speciation; comparative methods; extinction and conservation; human evolution.

(Sponsoring Dept.: BIOL) Applies to Biological Sciences Specialization Areas: PHNB, GENB, and ECEV.

0101	Sara Via TuTh 11:00am - 12:15pm	Seats (Total: 100) PLS 1140

BSCI373 **Natural History of the Chesapeake Bay**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 credits in BSCI courses; or permission of CMNS-Biological Sciences UG Program. Also offered as: ENST373. Credit only granted for: BSCI206, BSCI373, or ENST373.

Consideration of the major groups of organisms associated with the Chesapeake Bay and current issues that determine humans' present and future uses for the Chesapeake and its biota.

0101	Patrick Kangas	Seats (Total: 80)
	MWF 3:00pm - 3:50pm	ANS 0408

BSCI378H **Cell Biology and Molecular Genetics Department Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Required seminar for all students participating in departmental honors research program.

(Sponsoring Dept.: CBMG). Restricted to students participating in the CBMG Departmental Honors Program. If you are interested in a CBMG Departmental Honors Research experience, please see the CBMG department web site for detailed information.

Click here for more course information.

0101	Louisa Wu	Seats (Total: 18)
	F 2:00pm - 2:50pm	HJP 1216

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

(Sponsoring Dept.: CBMG). Permission required. See CBMG department Undergraduate office. Formerly MICB399G.

Contact department for information to register for this course.

BSCI379H **Cell Biology and Molecular Genetics Department Honors Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Student should consult program guidelines. Research project carried out under guidance of faculty advisor.

(Sponsoring Dept.: CBMG). Corequisite: BSCI378H. Restricted to students participating in the CBMG Departmental Honors Program.

Click here for detailed program information.

Contact department for information to register for this course.

BSCI379P **Cell Biology and Molecular Genetics Department Research; Research in Plant Biology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

(Sponsoring Dept.: CBMG). Permission required. See CBMG Undergraduate office Formerly PBIO399.

Contact department for information to register for this course.

BSCI389 **Entomology Department Research**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

(Sponsoring Dept.: ENTM).Formerly ENTM399.

Contact department for information to register for this course.

BSCI389H **Entomology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI392 **Biology of Extinct Animals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI106.

A survey of extinct animals that have few, if any, direct living descendants. The principles governing the functional design of animals will be used to infer life styles for extinct, and frequently bizarre, organisms.

Specialization Areas: ECEV and GENB.

0101	Bretton Kent	Seats (Total: 55)
	MWF 9:00am - 9:50am	PLS 1130

BSCI393 **Biology of Extinct Animals Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI392.

An overview of the techniques used in paleobiological reconstructions o extinct animals.

This is a blended course with most of the work being done online and weekly one hour discussions of lab results.

BL01	Bretton Kent	Seats (Total: 32)	
	Class time/details on ELMs	ONLINE	Lab
	M 2:00pm - 2:50pm	PLS 1119	Lab

BSCI398H **Biology Department Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Required seminar for all students participating in departmental honors research program.

(Sponsoring Dept. :BIOL).

1000	Marjorie Reaka	Seats (Total: 35)
	M 4:00pm - 5:00pm	BPS 1208

BSCI399 **Biology Department Research; Biology Department Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

Formerly ZOOL 319. (Sponsoring Dept.: BIOL)

Contact department for information to register for this course.

BSCI399H **Biology Department Honors Research**

(Perm req)

Credits: 1-2 Grading Method: Regular

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Dept.: BIOL). Formerly ZOOL318H.

Contact department for information to register for this course.

BSCI404 **Cell Biology from a Biophysical Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330. Recommended: PHYS121 and PHYS122; or completion of PHYS131 and PHYS132 recommended. Also offered as: BIOL704, BIPH704. Credit only granted for: BSCI338O, BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BSCI338O.

An approach to cell biology by focusing on mechanisms and unifying physical paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think mechanistically and quantitatively.

0101	Sergei Sukharev TuTh 3:30pm - 4:45pm	Seats (Total: 15) PLS 1113

BSCI410 **Molecular Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222. And must have completed CHEM233; or (CHEM231 and CHEM232).

An advanced genetics course emphasizing the molecular basis of gene structure and function in the context of modern approaches to the genetics of humans and model organisms.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences specialization areas: PHNB, MICB, CEBG, GENB and CMBG.

0101	Stephen Mount TuTh 11:00am - 12:15pm	Seats (Total: 99) BPS 1250
0201	Leslie Pick TuTh 9:30am - 10:45am	Seats (Total: 45) ITV 1111

BSCI411 **Bioinformatics and Integrated Genomics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI222. Recommended: BSCI410. Credit only granted for: BSCI380 or BSCI411. Formerly: BSCI380.

Computational methods for the study of biological sequence data in comparative biology and evolution. Analysis of genome content and organization. Database searching, pairwise and multiple sequence alignment, phylogenetic, methods, pattern recognition, and functional inference. Functional and comparative genomics approaches.

(Sponsoring Dept.: CBMG). Acceptable to Biological Specialization Areas: CEBG, MICB, and GENB. Studets must pay a $40.00 Laboratory Materials fee.

0101	Najib El-Sayed, Sridhar Hannenhalli MWF 10:00am - 10:50am M 2:00pm - 5:00pm	Seats (Total: 25) MCB 1207 PLS 1121	 Lab
0102	Najib El-Sayed, Sridhar Hannenhalli MWF 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 25) MCB 1207 PLS 1121	 Lab

BSCI414 **Recombinant DNA Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222.

An advanced course offering hands-on experience in performing recombinant DNA experiments. All current molecular biology techniques used for cloning prokaryotic genes, analyzing the gene products, and modifying the genes will be performed. Techniques include isolation of DNA, use of restriction enzymes; cloning procedures, PCR analysis, and Southern hybridizations. Lecture material focuses on interpretation of results generated in the laboratory.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, MICB, CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Sandra Fox-Moon TuTh 12:30pm - 4:30pm Contact instructor or department for details.	Seats (Total: 18) MCB 1207	
0102	Sandra Fox-Moon TuTh 12:30pm - 4:30pm Contact instructor or department for details.	Seats (Total: 18) MCB 1207	

BSCI415 **Molecular Genetics Laboratory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI410. Restriction: Junior standing or higher. Credit only granted for: BSCI348G or BSCI415. Formerly: BSCI348G.

Problem solving laboratory organized around extended projects that employ different approaches toward linking gene and function.

(Sponsoring Dept.: CBMG). Specialization Areas: CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

0101	David Straney TuTh 2:00pm - 5:00pm	Seats (Total: 20) HJP 2226	 Lab

BSCI416 **Human Genetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in BSCI410. Recommended: BSCI330.

Approaches to human genetics and applications to biology and medicine focusing on specific human genetic topics using primary research papers as the main resource.

Contact department for information to register for this course.

BSCI420 **Cell Biology Lectures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, BSCI222, CHEM231, and CHEM232. Credit only granted for: BSCI420 or BSCI421.

Molecular and biochemical bases of cellular organization and function in eukaryotes.

(Sponsoring Dept: BIOL). Specialization Areas: PHNB, CEBG, and GENB.

0101	Michael Ma, Vera Stupina MWF 12:00pm - 12:50pm	Seats (Total: 40) BPS 1250	
0201	Norma Andrews, Sougata Roy TuTh 12:30pm - 1:45pm	Seats (Total: 40) TYD 1102	

BSCI424 **Pathogenic Microbiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI223.

The role of bacteria and fungi in the diseases of humans with emphasis upon the differentiation and culture of microorganisms, types of disease, modes of disease transmission, prophylactic, therapeutic, and epidemiological aspects.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: MICB and GENB (Category 2). Students must pay a $40.00 laboratory materials fee.

0101	Kenneth Frauwirth, Volker Briken TuTh 11:00am - 11:50am MW 9:00am - 10:50am	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0102	Kenneth Frauwirth, Volker Briken TuTh 11:00am - 11:50am MW 11:00am - 12:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0103	Kenneth Frauwirth, Volker Briken TuTh 11:00am - 11:50am MW 1:00pm - 2:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab
0104	Volker Briken, Kenneth Frauwirth TuTh 11:00am - 11:50am MW 3:00pm - 4:50pm	Seats (Total: 18) MCB 1207 MCB 1143	 Lab

BSCI427 **Principles of Microscopy**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI421.

An introduction to optical principles that underlie light and electron microscopic image formation. Brightfield, darkfield, phase contrast, differential interference contrast, fluorescence and polarized light microscopy. Comparison of light and electron microscopy. The application of these techniques to problems in biological research.

0101	Stephen Wolniak MW 8:00am - 9:00am	Seats (Total: 6) HJP 1216

BSCI430 **Developmental Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330.

Structural, functional and regulatory events and mechanisms that operate during development to produce an integrated, multicellular organism composed of a multitude of differentiated cell types.

0101	William Jeffery TuTh 2:00pm - 3:15pm	Seats (Total: 30) SQH 1107

BSCI437 **General Virology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.

Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: GENB, MICB and CEBG.

0101	Jonathan Dinman MWF 11:00am - 11:50am	Seats (Total: 60) BPS 1243
SG91	Sandra Fox-Moon MW 1:00pm - 2:15pm *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) Location: TBA

BSCI440 **Mammalian Physiology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330; and (CHEM231 and CHEM232; or must have completed CHEM233). Or permission of CMNS-Biological Sciences UG Program.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals. Course does not count as an upper level lab for BIOL majors (see BSCI441).

(Sponsoring Dept.: BIOL). Applies to Biological Sciences Specialization Areas: PHNB and GENB. BSCI 440 is a lecture/discussion format course. The laboratory is offered separately as BSCI 441.

0101	Joshua Singer MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) BRB 1101 BPS 0283	 Discussion

0102	Joshua Singer MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) BRB 1101 BPS 1236	Discussion
0103	Joshua Singer MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) BRB 1101 BPS 1238	Discussion
0104	Joshua Singer MWF 10:00am - 10:50am W 11:00am - 12:50pm	Seats (Total: 30) BRB 1101 BPS 0283	Discussion
0105	Joshua Singer MWF 10:00am - 10:50am W 11:00am - 12:50pm	Seats (Total: 30) BRB 1101 BPS 1228	Discussion
0106	Joshua Singer MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) BRB 1101 BPS 1228	Discussion
0107	Joshua Singer MWF 10:00am - 10:50am Tu 8:00am - 9:50am	Seats (Total: 30) BRB 1101 HBK 0123	Discussion
0108	Joshua Singer MWF 10:00am - 10:50am Th 8:00am - 9:50am	Seats (Total: 30) BRB 1101 HBK 0123	Discussion

BSCI441 **Mammalian Physiology Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI440.

Laboratory exercises in experimental mammalian physiology.

(Sponsoring Dept.: BIOL). Applies to Biological Sciences Specialization Areas: PHNB and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Meredith Bohannon F 1:00pm - 1:50pm M 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	Lab

0102	Meredith Bohannon F 1:00pm - 1:50pm Tu 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab
0103	Meredith Bohannon F 1:00pm - 1:50pm W 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab
0104	Meredith Bohannon F 1:00pm - 1:50pm Th 2:00pm - 5:50pm	Seats (Total: 20) BPS 1243 PLS 1181	 Lab

BSCI443 **Microbial Physiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI223. And minimum grade of C- in BCHM461; or minimum grade of C- in BCHM463.

Microbial cellular and population growth. Fermentation metabolism, physiology of anaerobiosis, and energy conservation and transformation in bacterial membranes. Efficiency of energy utilization for growth. Membrane structure and transport. Bacterial chemotaxis. Regulation of bacterial chromosome replication, RNA and protein synthesis. Control of metabolic pathways.

0101	Steven Hutcheson MW 11:00am - 12:15pm	Seats (Total: 50) MCB 1207

BSCI447 **General Endocrinology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI330, CHEM241, and CHEM242.

Functions and the functioning of the endocrine glands of animals with special reference to the vertebrates.

(Sponsoring DEPT.: BIOL). Specialization Areas: PHNB and GENB.

0101	Justicia Opoku-Edusei MWF 10:00am - 10:50am	Seats (Total: 70) BPS 1243

BSCI454 **Neurobiology Laboratory**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI330; and must have completed or be concurrently enrolled in BSCI353; and must have completed or be concurrently enrolled in PHYS122, PHYS132, or PHYS142.

Basic neuroanatomical techniques, intracellular and extracellular recordings of electrical potentials from nerve and muscle.

(Sponsoring Dept.: BIOL). Specialization areas: CEBG, PHNB, and GENB. Students must pay a $40.00 laboratory materials fee.

0101	Meredith Bohannon M 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab
0102	Meredith Bohannon Tu 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab
0103	Meredith Bohannon W 2:00pm - 5:00pm	Seats (Total: 20) BPS 0257	Lab

BSCI460 Plant Ecology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI106.

The dynamics of populations as affected by environmental factors with special emphasis on the structure and composition of natural plant communities, both terrestrial and aquatic.

0101	Nathan Swenson TuTh 9:30am - 10:45am	Seats (Total: 50) TYD 1132

BSCI465 Behavioral Ecology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI106.

How natural and social environments shape individual behavior. The influence of evolution on patterns of individual adaptation. Use of the evolutionary paradigm to investigate specific problems in animal and human behavior.

0101	Gerald Borgia MW 1:00pm - 2:15pm	Seats (Total: 20) PLS 1117

BSCI467 **Freshwater Biology**

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of CMNS-Biological Sciences UG Program.

Biology and ecology of freshwater invertebrates in lotic and lentic habitats, their adaptation to aquatic life, their function in aquatic ecosystems, and their relationship to environmental deterioration. Laboratory will include field trips, demonstrations, and identifications.

Specialization Areas: ECEV and GENB. There is a $40.00 lab fee for this course.

0101	William Lamp MWF 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 24) BPS 0283 PLS 1161	 Lab
0102	William Lamp MWF 1:00pm - 1:50pm Th 2:00pm - 5:00pm	Seats (Total: 24) BPS 0283 PLS 1161	 Lab

BSCI471 **Molecular Evolution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biology department.

Patterns of DNA sequence variation within and between species, caused b nucleotide changes and the movement of transposable elements. Theories of molecular evolution, such as the neutral theory. Molecular clock hypothesis: its importance as a practical empirical tool in molecular genetics and systematics and its theoretical foundation.

0101	Michael Cummings TuTh 12:30pm - 1:45pm	Seats (Total: 25) BPS 1238	

BSCI474 **Mathematical Biology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH220 and MATH221; or (MATH131 and MATH130).

Mathematical methods for analyzing deterministic and stochastic biological processes from a variety of areas (including population and evolutionary biology, neurobiology, physiology and morphogenesis). Qualitative aspects of dynamical systems which are usually given as difference or differential equations. The computer program Mathematica will be used to obtain the numerical solutions of these equations.

0101	Jonathan Simon	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

BSCI497 **Insect Pests of Ornamentals and Turf**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

The recognition, biology and management of insects and mites injurious to ornamental shrubs, trees, greenhouse crops, and turf. Emphasis on Integrated Pest Management (IPM).

0101	Paula Shrewsbury	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	PLS 1130	
	M 1:00pm - 4:00pm	PLS 1161	Lab

BSCV CIVICUS Fall 2015

BSCV181 **Civicus Student and the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Freshman standing; and must be in the Civicus program. Credit only granted for: BSOS181 or BSCV181. Formerly: BSOS181.

Knowledge and skills designed to utilize CIVICUS to enhance the college experience and preparation for civic engagement.

0101	James Bond	Seats (Total: 19)	
	M 2:00pm - 3:45pm	SOM 0110	
0201	Julie Randolph	Seats (Total: 26)	
	Tu 2:00pm - 3:45pm	SOM 0101	
0301	Vanessa Taft	Seats (Total: 26)	
	Th 2:00pm - 3:45pm	SOM 0101	

BSCV191 **Introduction to Civicus**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Civicus program. Credit only granted for: BSCV191 or BSOS191. Formerly: BSOS191.

An introduction to the social and historical foundations of a civil society. An examination of the roles of individuals, groups, social institutions and community services.

0101	Sue Briggs TuTh 9:30am - 10:45am	Seats (Total: 27) SOM 0101
0201	Sue Briggs TuTh 11:00am - 12:15pm	Seats (Total: 27) SOM 0101
0301	Sue Briggs TuTh 4:00pm - 5:15pm	Seats (Total: 27) SOM 0101

BSCV301 Leadership in a Multicultural Society

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCV191, SOCY105, and BSCV181. Restriction: Sophomore standing or higher. Credit only granted for: BSOS301 or BSCV301. Formerly: BSOS301.

A study and application of skills, historical context, theories, and concepts for constructive leadership in a pluralistic, multicultural, and diverse society. Social science methodologies and theories will provide the structure for the study of contemporary social problems, civil society issues, and leadership practices.

0101	Sue Briggs MW 2:00pm - 3:15pm	Seats (Total: 32) SOM 0101
0201	Sue Briggs MW 3:30pm - 4:45pm	Seats (Total: 25) SOM 0101
0301	Nicole Mehta TuTh 12:30pm - 1:45pm	Seats (Total: 25) SOM 0101

BSCV309 Civicus Seminar

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Review and analysis of contemporary social issues.

0101	Sue Briggs Contact instructor or department for details.	Seats (Total: 5)

BSGC Global Communities Fall 2015

BSGC100 **The Student in the University: Global Communities**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be enrolled in Global Communities Living-Learning Program. By Permission Only (BPO).

Students will develop a sense of community within the program, become familiar with campus resources, gain skills and information to prepare for the Global Experience Semester, and explore the surrounding international community.

0101	Malaika Serrano Tu 9:30am - 10:45am	Seats (Total: 26) DOR 0128
0102	Malaika Serrano Tu 11:00am - 12:15pm	Seats (Total: 25) DOR 0128
0103	Malaika Serrano Tu 2:00pm - 3:15pm	Seats (Total: 25) DOR 0128

BSGC101 **Globalization**

(Perm req)

Credits: 3 Grading Method: Regular CORE: SB General Education: DSHS, SCIS

Restriction: Must be in Global Communities Living-Learning program.

An exploration of a variety of perspectives and ways of understanding the historical evolution and contemporary significance of growing interconnectedness in the world. We will examine this through the lens a major contemporary issue, currently "global food," which looks at the ways in which food is culturally, economically, politically and socially placed within a global context.

0101	Virginia Haufler Tu 3:30pm - 4:45pm Th 9:30am - 10:45am	Seats (Total: 27) TYD 2109 DOR 0128	 Discussion
0102	Virginia Haufler Tu 3:30pm - 4:45pm Th 11:00am - 12:15pm	Seats (Total: 25) TYD 2109 DOR 0128	 Discussion

0103	Virginia Haufler	Seats (Total: 25)	
	Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	TYD 2109 DOR 0128	Discussion

BSGC302 **BSGC 302 Capstone: Global Connections**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Global Communities Living-Learning program. By permission only (BPO). Additional information: This course is limited to second-year students in the Global Communities Living-Learning Program who have completed or are in the midst of completing their Global Experience requirement.

Final component of the Global Communities curriculum. The course connects the global experience with previous BSGC coursework.

0101	Virginia Haufler	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

BSGC386 **Experiential Learning in Global Communities: Global Internship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Must be in Global Communities Living-Learning program. Credit only granted for: BSGC398E or BSGC386. Formerly: BSGC398E.

Experiential Learning in Global Communities: Global Internship, will give students an opportunity to connect theory with practice.

0101	Natalie Vinski	Seats (Total: 10)
	Contact instructor or department for details.	

BSGC399 **Topical Investigations in Global Communities**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Variable from 1-3 credits and repeatable up to 6 if content varies.

0101	Virginia Haufler	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

BSOS248A **Leadership Seminar I; Ambassadors**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS248D **Leadership Seminar I; Dean's Student Advisory Council**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS258D **Leadership Practicum I; Dean's Student Advisory Council**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS258L **Leadership Practicum I; DSAC Officers**

(Perm req)

Credits: 1 Grading Method: Regular

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Repeatable to 9 credits.

Contact department for information to register for this course.

BSOS258P **Leadership Practicum I; Peer Mentors**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS288I **Special Topics in Behavioral and Social Sciences; Internship Practicum in the Social Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Contact department for information to register for this course.

BSOS288V **Special Topics in Behavioral and Social Sciences; Technology Apprentice Program**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Restricted to BSOS students. Technical skills and pedagogical basics needed to support faculty uses of technology in the classroom. Web publishing, academic website development, creating/using digitized media, electronic presentation tools, and discussion group facilitation. The class will usually meet face-to-face for two and one-half hours per week; however, three or four times per semester, the class will meet online instead. Students will interact and be assessed on their participation in an online environment. For permission to enroll or more information, please contact margaret Weber at mweber@bsos.umd.edu.

Contact department for information to register for this course.

BSOS289I **Playing the Market: Managing Risk and Using Technical Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP, SCIS

Through readings, class discussion, guest lecturers, anda simulated portfolio construction and class trading competition, this course will introduce students to investing and trading, with special emphasis on the field of technical analysis. The technical approach to the markets focuses largelly on the analysis of price and volume patterns as indicators of stock trends. Students will learn how to evaluate companies using internet sources and a technical analysis program. Each student will be expected to use a set of trading rules to apply to theirtrading ofa virtual $100,000 margin portfolio and to manage risk. Students will develop an accurate view of the risks of benefits of trading stocks and an appreciation of the complexities involved in the technical approach to trading stocks. The course assumes no prior knowledge of the stock market.

FC01	Eric Wish, David McCandlish	Seats (Total: 200)
	F 9:30am - 12:30pm	KEY 0106
	Restricted to students in Freshmen Connection.	

BSOS358A **Leadership Practicum II; Ambassadors**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358D **Leadership Practicum II; Leadership Practicum II DSAC**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358L **Leadership Practicum II; DSAC Officers**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Repeatable to 9 credits.

Contact department for information to register for this course.

BSOS358P **Leadership Practicum II; Peer Mentors**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

BSOS388A **Behavioral and Social Sciences Special Topics; Editorial Skills and Research Methods**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388E **Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388F **Behavioral and Social Sciences Special Topics; Innovation in the Public Sector**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Prerequisite: PSYC100, GVPT100 or ECON200. Also offered as GVPT388B. Credit will be granted for BSOS388f or GVPT 388B. How does innovation occur in the public sector? How can government serve as a catalyst for problem-solving? Using the tools of innovation and entrepreneurship, this laboratory course engages students in a semester-long project to innovate change around a specific public sector issue or industry in our local or regional community. Some examples might include: public broadband access, sustainability infrastructure, transportation improvements, or health care access in the College Park, Prince George's, or Maryland communities. Lead instructor Ken Ulman,'97 is the former Howard County Executive who now heads the University's efforts to transform College Park into one of the most innovative university towns in the country. For permission to register, email Blessing Enekwe at blessing@umd.edu with your name, UID and brief statement of why this course is of interest to you.

0101	Samantha O'Neil, Kenneth Ulman	Seats (Total: 20)
	W 4:00pm - 6:30pm	CHT 2113

BSOS388I **Behavioral and Social Sciences Special Topics; Social Science Internship Practicum**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388M **Behavioral and Social Sciences Special Topics; Social Science Independent Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388P **Behavioral and Social Sciences Special Topics; PULSAR Research Seminar; MD Lang Sci Ctr**

(Perm req)

Credits: 1

Grading Method: Regular

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

For students in the PULSAR program.

Contact department for information to register for this course.

BSOS388Q **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388R **Behavioral and Social Sciences Special Topics; PULSAR Research Practicum, MD Lang Sci Ctr**

(Perm req)

Credits: 1-3

Grading Method: Regular

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

For students in the PULSAR program.

Contact department for information to register for this course.

BSOS399B **Directed Study in Behavioral and Social Sciences; Directed Research in International Development**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399P **Directed Study in Behavioral and Social Sciences; Undergraduate Research**

(Perm req) Credits: 1-6 Grading Method: Regular

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399T **Directed Study in Behavioral and Social Sciences; Civicus Teaching Assistant**

(Perm req) Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS448C **Teaching Assistant Practicum; Civicus**

(Perm req) Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448D **Teaching Assistant Practicum; Dean's Student Advisory Council**

(Perm req) Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448I **Teaching Assistant Practicum; Internship**

(Perm req) Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448T **Teaching Assistant Practicum; (UNIV)**

(Perm req) Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448W **Teaching Assistant Practicum; Global Communities**

(Perm req)

Credits: 3 Grading Method: Regular

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Repeatable to 6 credits, if content differs.

0101	Virginia Haufler	Seats (Total: 5)
	Contact instructor or department for details.	

BSOS678C **Special Topics in Justice Leadership; Criminal Procedure Law**

Credits: 3 Grading Method: Regular, Audit

Crime and Criminal Justice in Vietnam. Issues that will be focused on the present situation of crime in Vietnam; causes and conditions of criminal activities; include crime forecasting and crime prevention in Vietnam. Also, provides comprehensive overview on the Criminal Justice System in Vietnam and relations among authorities.

Contact department for information to register for this course.

BSST Terrorism Studies Fall 2015

BSST330 **Terrorist Motivations and Behaviors**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Global Terrorism minor; or special permission available for students in other Global Studies minors. Credit only granted for: BSOS330 or BSST330. Formerly: BSOS330.

Explores theories explaining the formation of terrorist groups and the motivations behind terrorist behavior, building upon theories from social psychology, sociology, political science, criminology, and history.

0101	Amy Pate	Seats (Total: 45)
	Tu 3:30pm - 6:15pm	TYD 2102

BSST332 **The Practice of Terrorism Studies**

Credits: 5 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: BSST330 and BSST331. Restriction: Must be in the Terrorism Studies minor program. Credit only granted for: BSOS332 or BSST332. Formerly: BSOS332.

Capstone course for students in the Global Terrorism Minor. Explores in-depth rigorous approaches to conducting research on terrorism and to developing policy on terrorism and counterterrorism. Examines the interplay between terrorism research and counterterrorism policy. All students will participate in an internship or complete a substantive original research project alongside the courses weekly seminar meeting.

0101	Nil Satana Th 4:00pm - 6:45pm Contact instructor or department for details.	Seats (Total: 35) ANS 0408	

BSST334 **States of Emergency**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Students will explore the manner in which crises unfold from the perspective of a variety of emergency response disciplines, including: emergency management, law enforcement, intelligence analysis, cyber analysis, risk communication, health and human services, and emergency psychiatry/psychology. Students will participate in a semester-long simulation of an unfolding terrorist attack.

0101	Katherine Izsak Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 40) JMP 3201 ONLINE	 Discussion
0102	Katherine Izsak Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 40) JMP 3201 ONLINE	 Discussion
0103	Katherine Izsak Tu 12:30pm - 1:45pm Th 3:30pm - 4:45pm	Seats (Total: 40) JMP 3201 ONLINE	 Discussion

BSST338F **Special Topics in Terrorism Studies; Media in War and Crisis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338I **Special Topics in Terrorism Studies; Arab-Israeli Relations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338M **Special Topics in Terrorism Studies; Ideology and Narrative In Terrorism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

0101	Mansoor Moaddel	Seats (Total: 20)
	Tu 3:00pm - 5:45pm	LEF 1221

BSST338N **Special Topics in Terrorism Studies; Arms Control in the Nuclear Realm**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338R **Special Topics in Terrorism Studies; Peace and Conflict Honors Seminar II: Regional Conflicts**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338V **Special Topics in Terrorism Studies; Innovation in Countering Violent Extremism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Based on the call from the US government to better understand and counter terrorism, this course looks at the novel approach, known as Countering Violent Extremism to build resilience, community engagement, and advocacy. Drawing on innovative theories, student will develop their own CVE project ideas. Students will conclude the semester by presenting their proposals to a panel of CVE specialists drawn from homeland and international security professionals in the Washington, DC, area.

0101	Katherine Izsak, William Braniff M 2:00pm - 4:45pm	Seats (Total: 32) MMH 1304
0102	Katherine Izsak, William Braniff M 2:00pm - 4:45pm	Seats (Total: 4) MMH 1304

BSST340 **Oral Communication for National Security Careers**

Credits: 3 Grading Method: Regular General Education: FSOC

Credit only granted for: BSST340 or BSST338E. Formerly: BSST338E.

Students will discuss perspectives on strategic communication and national security, while discussing and practicing public speaking skills and developing proficiency in three genres of security-related briefings. Students will work with the technical, scientific, and/or specialized data, vocabularies, processes, and products of the academic disciplines and/or fields of expertise relevant to national and international security careers.

FC01	Holly Roberts MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) KNI 1103

BSST399J **Individual Study in Terrorism Studies; Cyber Security and Digital Terrorism, Part 1**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Contact department for information to register for this course.

0101	Katherine Izsak Contact instructor or department for details.	Seats (Total: 3)

BSST399K **Individual Study in Terrorism Studies; Introduction to Terrorism and The Terrorist Threat**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Meets at the START office: Baltimore Avenue Annex Bldg. BAV Room 204. Restriction: Must be in the Terrorism Studies minor program.

0101	William Braniff Th 3:30pm - 5:30pm	Seats (Total: 20) Location: TBA

BSST399L **Individual Study in Terrorism Studies; Homeland Security**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Contact department for information to register.

0101	Katherine Izsak Contact instructor or department for details.	Seats (Total: 6)

BSST399T **Individual Study in Terrorism Studies; Teaching Terrorism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

0101	Johanna Birnir Contact instructor or department for details.	Seats (Total: 6)
0201	Amy Pate Contact instructor or department for details.	Seats (Total: 1)
0301	Mansoor Moaddel Contact instructor or department for details.	Seats (Total: 6)
0401	Katherine Izsak Contact instructor or department for details.	Seats (Total: 6)

0501	Heather Epkins	Seats (Total: 1)
	Contact instructor or department for details.	

BSST399V **Individual Study in Terrorism Studies; Countering Violent Extremi Fellowship Career Development Part II**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

0101	Marcella Morris	Seats (Total: 4)
	Contact instructor or department for details.	

BSST630 **Motivations and Intents of Terrorists and Terrorist Groups**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in the Terrorism Analysis Graduate Certificate Program. Credit only granted for: BSOS630 or BSST630. Formerly: BSOS630.

Examines motivations for terrorism from an interdisciplinary perspective, with emphasis on political and applied social psychological perspective. Topics may include: defining terrorism; preconditions; recruitment; domestic and international terrorism; and case studies and analysis of terrorist organizations.

ST01	Anthony Lemieux	Seats (Total: 35)
	Meets September 23, 2015 - December 16, 2015	
	W 6:00pm - 8:30pm	ONLINE
	Contact instructor or department for details.	

BSST632 **Development of Counterterrorism Policies and Programs**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in the Terrorism Analysis Graduate Certificate Program; or permission of department. Credit only granted for: BSOS632 or BSST632. Formerly: BSOS632.

Addresses the formulation, adoption, effectiveness, impacts, and afterlives of counterterrorism policies and programs.

Admission to Terrorism Analysis Graduate Certificate Program required.

ST01	Susan Szmania	Seats (Total: 30)
	Meets August 31, 2015 - November 16, 2015	
	M 6:30pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BUAC Accounting and Information Assurance — Fall 2015

BUAC711 **Financial Planning and Control Systems for Managers and Consultants**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI611, BUSI681, and BUSI630; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT711 and BUAC711. Formerly: BMGT711.

This course provides an analysis of several topics concerning financial planning/control systems (management accounting systems). Topics covered: design and use of cost management systems (including activity based costing systems), financial performance measures for enhancing firm value, managerial incentive contracts and accounting data, management accounting and Internet-based transactions, managing earnings and financial ratios, use of balanced scorecard to evaluate financial/nonfinancial managerial performance, management accounting systems and competitor analysis, behavioral aspects of budgeting, post-auditing of capital investments, accounting/economics aspects of information security, and transfer pricing.

DC06	Instructor: TBA	Seats (Total: 45)
	Meets October 17, 2015 - December 12, 2015	
	Sa 1:40pm - 5:50pm	DC C2
	Meets 10/17, 10/24, 10/31, 11/14, 11/21, 12/5, Final 12/12.	

BUAC743 **Financial Statement Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

DC01	Partha Sengupta **Meets October 21, 2015 - December 11, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 45) DC C4
GS01	E Carr **Meets August 24, 2015 - October 12, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 45) BLD2 3032

BUAC758B **Special Topics in Accounting and Information Assurance; Tax Considerations for Strategic Management Decisions**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

BA01	Alexander Ruygrok **Meets October 21, 2015 - December 11, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) BA 101

BUAC758L **Special Topics in Accounting and Information Assurance; Intermediate Accounting I**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Eugene Cantor **Meets August 24, 2015 - October 12, 2015** TuTh 4:00pm - 5:50pm *For MBA students as well as MS in Accounting students.*	Seats (Total: 0) VMH 1520

BUAC758M **Special Topics in Accounting and Information Assurance; Intermediate Accounting II**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Eugene Cantor **Meets October 21, 2015 - December 11, 2015** TuTh 4:00pm - 5:50pm *For MBA students as well as MS in Accounting students.*	Seats (Total: 0) VMH 1520

BUAC758R **Special Topics in Accounting and Information Assurance; Financial Reporting for Executives**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Michael Kimbrough **Meets October 21, 2015 - December 11, 2015** MW 5:00pm - 6:50pm	Seats (Total: 50) VMH 1336

BUAC758T **Special Topics in Accounting and Information Assurance; Taxation of Individuals**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Jeffrey Milton **Meets August 24, 2015 - October 12, 2015** TuTh 7:00pm - 8:50pm	Seats (Total: 0) VMH 1528
GS51	Alexander Ruygrok **Meets August 25, 2015 - September 22, 2015** TuTh 6:00pm - 9:35pm *Meets 8/25, 8/27, 9/1, 9/3, 9/8, 9/10, 9/15, Final 9/22.*	Seats (Total: 50) BLD2 3022

BUAC758V **Special Topics in Accounting and Information Assurance; Taxation of Corporations and Other Entities**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Peter Ford	Seats (Total: 0)
	Meets October 21, 2015 - December 11, 2015	
	TuTh 7:00pm - 8:50pm	VMH 1528

BUAC758X **Special Topics in Accounting and Information Assurance; Real Estate Taxation**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Jeffrey Milton	Seats (Total: 50)
	Meets August 24, 2015 - October 12, 2015	
	MW 5:00pm - 6:50pm	VMH 1336
	For MS in Accounting students only.	

BUAC759 **Independent Study in Accounting and Information Assurance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in accounting and information assurance.

Contact department for information to register for this course.

BUAC765 **Business Ethics for Accountants and Auditors**

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Considers all facets of business ethics issues within an accounting and auditing context. Ethical theory, corporate social responsibility, and individual decision-making are considered. Some of the applied topics that may be covered in this course include, but are not limited to, intellectual property issues, corporate downsizing, outsourcing, global ethics, crises management, and employment ethics.

0501	James Lager	Seats (Total: 0)
	Meets September 2, 2015 - December 11, 2015	
	W 7:00pm - 9:45pm	VMH 1518
	For MS in Accounting students only. First meeting will be on September 2nd.	

0502	David Weber **Meets October 21, 2015 - December 11, 2015** TuTh 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
GS51	James Lager **Meets September 29, 2015 - December 15, 2015** Tu 6:00pm - 9:25pm	Seats (Total: 45) BLD2 2032

BUAC780 **Financial Statement Analysis for Accountants and Auditors**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Provides a framework for using a firm's financial statements to perform a comprehensive analysis of the firm's operating performance, cash management, and financial position as well as to value the firm and to detect earning management. It includes an overview of the accounting and auditing standard setting framework, and the relevance of U.S. GAAP as well as International Financial Reporting Standards (IFRS) to accounting recognition, measurement, presentation, and disclosure. The course also identifies the analytical relevance of a selected set of more advanced accounting topics (e.g., valuing employee stock options).

0501	Sebahattin Demirkan **Meets August 24, 2015 - October 12, 2015** MW 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1333
0502	Nicholas Seybert **Meets August 24, 2015 - October 12, 2015** TuTh 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0503	Nicholas Seybert **Meets August 24, 2015 - October 12, 2015** TuTh 4:00pm - 6:45pm	Seats (Total: 60) VMH 1330

0504	Gary Bulmash **Meets August 24, 2015 - October 12, 2015** TuTh 8:00am - 10:45am	Seats (Total: 60) VMH 1520

BUAC782 **Advanced Managerial Accounting and Control Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Focuses on topics that emphasize the role of managerial accounting in a firm's overall management planning and control structure. A key concern is to show how effective organizations ensure that the parts of the organization work together to create the whole, and how the sum of the parts, through synergy, can indeed be greater then the whole.

0501	Lei Zhou **Meets October 21, 2015 - December 11, 2015** TuTh 8:00am - 10:45am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1520
0502	Lei Zhou **Meets October 21, 2015 - December 11, 2015** MW 11:00am - 1:45pm *For MS in Accounting students only.*	Seats (Total: 0) TYD 0102
0503	Lei Zhou **Meets October 21, 2015 - December 11, 2015** TuTh 7:00pm - 9:45pm *MS in Accounting students only.*	Seats (Total: 50) VMH 1333
0504	Peter McPhun **Meets October 21, 2015 - December 11, 2015** MW 7:00pm - 9:45pm	Seats (Total: 50) VMH 1335

BUAC784 **Business Communications for Accountants and Auditors**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Focuses on the art of communication and its effects on people, organizations, and other stakeholders. The course will focus on two aspects of business communications: persuasion and effective presentations. The objective for the persuasion sessions is to have students improve upon their day-to-day oral business communications skills. This will be accomplished as participants learn to tailor each communication to the person or people with whom they are speaking.

0501	Howard Weiner **Meets August 24, 2015 - October 12, 2015** MW 12:00pm - 1:50pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0502	Howard Weiner **Meets August 24, 2015 - October 12, 2015** MW 10:00am - 11:50am *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0503	Howard Weiner **Meets August 24, 2015 - October 12, 2015** MW 4:00pm - 5:50pm *MS in Accounting students only.*	Seats (Total: 65) VMH 1528
0504	Rebecca Martin **Meets August 24, 2015 - October 12, 2015** TuTh 7:00pm - 8:50pm *For MS in Accounting students only.*	Seats (Total: 50) VMH 1333

BUAC786 **Internal Auditing I: Conceptual and Institutional Framework**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Provides students with an overview and basic understanding of internal auditing. Internal audit's role in internal control, risk management, business processes and risks, and Sarbanes-Oxley, Section 404 compliance efforts compliance efforts are considered. Internal auditing is presented as an integral part of effective corporate governance. Examples of assurance and consulting activities undertaken by the internal audit function, as well as the sourcing strategy (i.e., full insourcing, co-sourcing or full outsourcing models) are discussed. Students ae introduced tointernal control theory, test design concepts and internal auditing bestpractices.

0501	Alan Siegfried, Elizabeth Folsom **Meets October 21, 2015 - December 11, 2015** MW 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0502	Alan Siegfried, Elizabeth Folsom **Meets October 21, 2015 - December 11, 2015** TuTh 4:00pm - 6:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330
0503	Alan Siegfried, Elizabeth Folsom **Meets October 21, 2015 - December 11, 2015** TuTh 7:00pm - 9:45pm	Seats (Total: 50) VMH 1335

BUAC787 **Internal Auditing II: Internal Audit Application and Practice**

Credits: 3 Grading Method: Regular

Prerequisite: BUAC786. Restriction: Must be in Business and Management (Master's) program.

This advanced internal auditing course contains an in-depth coverage of the internal audit process. Students receive experience in planning and conducting internal audit assurance and consulting engagements. Also, students build on the theory and techniques introduced in Internal Auditing I, through practical, in-depth coverage of specific audit areas. Other matters covered include audit evidence, workpapers, audit sampling, and communicating of engagement results. Internal auditing case studies are used to reinforce the learning process.

GS51	Alan Siegfried, Elizabeth Folsom **Meets October 3, 2015 - November 21, 2015** Sa 9:00am - 2:00pm *For MS in Accounting students only. Course meets 10/3, 10/10, 10/17, 10/24, 10/31, 11/7, 11/14, Final 11/21.*	Seats (Total: 50) BLD2 3032

BUAC792 **Forensic Accounting/Auditing**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Provides a theoretical background and practical application of fraud examinations and corporate investigations. Fraud prevention, detection, investigation, and related matters such as courtroom procedures will be included. Also considered are topics such as FCPA and securities fraud. A wide variety of teaching tools are used.

0501	Ariel Ramirez **Meets August 24, 2015 - October 12, 2015** TuTh 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1335
0502	Ariel Ramirez **Meets August 24, 2015 - October 12, 2015** MW 7:00pm - 9:45pm *For MS in Accounting students only.*	Seats (Total: 0) VMH 1330

BUDT Decision and Information Technologies — Fall 2015

BUDT706 **Social Media and Web 2.0**

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Over the past years, social computing technologies such as online communities, blogs, wikis, and social networking systems have become important tools for individuals to seek information, socialize with others, get support, collaborate on work, and express themselves. Increasingly, businesses are trying to leverage web 2.0 by using social computing technologies to communicate with customers, employees, and other business partners or to build new business models. This course will review concepts and principles related to web 2.0 and examine issues and strategies associated with business use of social computing technologies.

DC01	Philip Piety	Seats (Total: 45)
	Meets August 24, 2015 - October 12, 2015	
	Th 6:25pm - 10:00pm	DC C1

BUDT732 **Decision Analytics**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT732 or BUDT732. Formerly: BMGT732.

Analytical modeling for managerial decisions using a spreadsheet environment. Includes linear and nonlinear optimization models, decision making under uncertainty and simulation models.

BA01	Ilya Ryzhov	Seats (Total: 45)
	Meets August 24, 2015 - October 12, 2015	
	W 6:25pm - 10:00pm	BA 103

BUDT758B **Special Topics in Decision, Operations and Information Technologies; Big Data**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Kunpeng Zhang	Seats (Total: 35)
	Meets August 24, 2015 - December 11, 2015	
	MW 12:30pm - 1:45pm	VMH 1520
	For MS in Information Systems students only.	

BUDT758E **Special Topics in Decision, Operations and Information Technologies; Enterprise Architecture**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

For MS in Information Systems students only.

0501	Daniel Spar	Seats (Total: 40)
	Meets August 24, 2015 - December 11, 2015	
	M 7:00pm - 9:40pm	VMH 1202
	For MS in Information Systems students only.	

BUDT758J **Special Topics in Decision, Operations and Information Technologies; Management of Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Barnet Corwin	Seats (Total: 27)
	Meets August 24, 2015 - December 11, 2015	
	MW 6:30pm - 7:45pm	VMH 1520
	For MS in Information Systems students only.	

BUDT758M **Special Topics in Decision, Operations and Information Technologies; Healthcare Information Systems**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Philip Piety	Seats (Total: 30)
	Meets August 24, 2015 - December 11, 2015	
	MW 8:00pm - 9:15pm	VMH 1520
	For MS in Information Systems students only.	

BUDT758P **Special Topics in Decision, Operations and Information Technologies; Decision Analytics**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Ilya Ryzhov	Seats (Total: 45)
	Meets August 24, 2015 - December 11, 2015	
	TuTh 2:00pm - 3:15pm	VMH 1528
	For MS in Information Systems students only.	

BUDT758R **Special Topics in Decision, Operations and Information Technologies; Operations and Supply Chain Strategy**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

GS01	Vernon Hsu	Seats (Total: 45)
	Meets October 21, 2015 - December 11, 2015	
	M 6:25pm - 10:00pm	BLD2 2052

BUDT758T **Special Topics in Decision, Operations and Information Technologies; Data Mining & Predictive Analysis**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

For MS in Information Systems students only.

0501	Kislaya Prasad	Seats (Total: 50)
	Meets August 24, 2015 - December 11, 2015	
	TuTh 11:00am - 12:15pm	VMH 1520
	For MS in Information Systems students only.	

BUDT758Y **Special Topics in Decision, Operations and Information Technologies; Database Management Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Woei-Jyh Lee **Meets August 24, 2015 - December 11, 2015** TuTh 3:30pm - 4:45pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1528
0502	Woei-Jyh Lee **Meets August 24, 2015 - December 11, 2015** TuTh 5:00pm - 6:15pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1528

BUDT758Z **Special Topics in Decision, Operations and Information Technologies; Data Networks and Infrastructures**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Donald Riley **Meets August 24, 2015 - December 11, 2015** MW 2:00pm - 3:15pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0502	Donald Riley **Meets August 24, 2015 - December 11, 2015** MW 3:30pm - 4:45pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333

BUDT759 **Independent Study in Decision and Information Technologies**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in decision and information technologies.

Contact department for information to register for this course.

BUDT775 **Pricing and Revenue Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUDT758D or BUDT775. Formerly: BUDT758D.

Specialized course on pricing and revenue management (PRM) that provide students with tools and principles, drawn from several disciplines (Operations, Microeconomics, Decision Modeling, Statistics, Marketing, IS) to make effective pricing decisions. Topics covered include economics of pricing, strategy and tactics of PRM, pricing optimization, differentiated pricing, dynamic pricing, mark-down pricing, legal and ethical issues in models/methods used in making effective PRM decisions and managerial or organizational factors that hold the key to success in execution of PRM.

0101	Yi Xu **Meets October 21, 2015 - December 11, 2015** TuTh 10:00am - 11:50am	Seats (Total: 45) VMH 1505
DC01	Instructor: TBA **Meets October 21, 2015 - December 11, 2015** Tu 6:25pm - 10:00pm *The Final will be held on Tuesday, December 18.*	Seats (Total: 45) DC C1

BUFN Finance Fall 2015

BUFN738 **Investment Fund Management**

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with th opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

DC06	Gurdip Bakshi **Meets August 22, 2015 - December 12, 2015** Sa 8:50am - 1:00pm *Meets 8/22, 9/5, 9/19, 9/26, 10/10, 10/24, 11/7, 11/21, 12/12. Application and selection process required. Please contact your advisor for assistance.*	Seats (Total: 17) DC C5

BUFN738A **Investment Fund Management; Mayer Fund**

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with th opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

0101	Sarah Kroncke **Meets August 24, 2015 - December 11, 2015** TuTh 10:00am - 11:50am *Application and selection process required. Please contact your advisor for assistance.*	Seats (Total: 15) VMH 3330H

BUFN740 **Capital Markets**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Designed to deepen the foundations necessary to finance focused students, especially those intending to specialize in the quantitative areas of finance including investments, fixed income, and financial engineering.

0501	Yajun Wang **Meets October 21, 2015 - December 11, 2015** MW 10:00am - 11:50am *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
0502	Ceyed Baiju **Meets October 21, 2015 - December 11, 2015** MW 12:00pm - 1:50pm *For MS in Finance Students only.*	Seats (Total: 0) VMH 1528
0503	Shrihari Santosh **Meets October 21, 2015 - December 11, 2015** MW 4:00pm - 5:50pm *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
DC01	Ceyed Baiju **Meets August 24, 2015 - October 12, 2015** M 6:25pm - 10:00pm	Seats (Total: 45) DC C4

BUFN750 **Valuation in Corporate Finance**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN714 or BUFN750. Formerly: BUFN714.

An advanced topics course in Corporate Finance dealing with valuation. Main topics will be, building pro forma statements, cost of capital, using ratios and comparables to value projects and firms, dicounted cash flow valuations, WACC and APV methods of valuation and Real Option Valuations.

GS01	Laurent Fresard **Meets August 24, 2015 - October 21, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2052

BUFN751 Financial Strategy For Corporations

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

An advanced course in corporate finance, focusing on the issues that firms face when they plan to raise external capital from financial markets. The focus is on the financing problems faced by mid-market to large firms and on capital raised from public markets. The forms of external finance vary from simple debt or equity to more complex securities that bundle with an element of risk management.

0501	William Mullins **Meets October 21, 2015 - December 11, 2015** MW 8:00am - 9:50am *MS in Finance students have priority registration.*	Seats (Total: 47) VMH 1330
DC01	William Mullins **Meets October 21, 2015 - December 11, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 45) DC C2
DC51	William Mullins **Meets October 21, 2015 - December 11, 2015** Tu 2:00pm - 5:35pm *MS in Finance students have priority registration.*	Seats (Total: 47) DC C1

GS01	William Mullins **Meets October 21, 2015 - December 11, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUFN752 **Financial Restructuring**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN716 or BUFN752. Formerly: BUFN716.

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

0101	Richmond Mathews **Meets August 24, 2015 - October 12, 2015** MW 2:00pm - 3:50pm	Seats (Total: 31) VMH 1518
0501	Bharat Jain **Meets August 24, 2015 - October 12, 2015** Th 6:25pm - 10:00pm *MS in Finance students have priority registration.*	Seats (Total: 31) VMH 1303
DC01	Richmond Mathews **Meets August 24, 2015 - October 12, 2015** W 6:25pm - 10:00pm	Seats (Total: 45) DC C4
DC06	Richmond Mathews **Meets August 29, 2015 - October 19, 2015** Sa 2:00pm - 6:30pm *Meets 8/29, 9/12, 9/26, 10/10, Final 10/17.*	Seats (Total: 45) DC C4

DC51	Richmond Mathews **Meets August 24, 2015 - October 12, 2015** Tu 2:00pm - 5:35pm *MS in Finance students have priority registration.*	Seats (Total: 50) DC C1

BUFN754 **Corporate Risk Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Surveys the theory and practice of financial risk identification, measurement, and mitigation at financial and non-financial firms. Topics will include hedging with options and futures, interest rate risk management, Value-at-Risk (VaR), Cashflow-at-Risk (CaR), Earnings-at-Risk (EaR), credit risk, equity risk, commodities risk, exchange rate risk, and lessons from risk management disasters.

0101	Clifford Rossi **Meets August 24, 2015 - October 12, 2015** MW 4:00pm - 5:50pm	Seats (Total: 31) VMH 1511
0501	Ceyed Baiju **Meets August 24, 2015 - October 12, 2015** Tu 6:25pm - 10:00pm *MS in Finance students have priority registration.*	Seats (Total: 45) VMH 1336
DC06	Clifford Rossi **Meets October 24, 2015 - December 12, 2015** Sa 8:30am - 1:00pm *Meets 10/24, 11/7, 11/21, 12/5, Final 12/12. Blended.*	Seats (Total: 31) DC C2

BUFN755 **Entrepreneurial Finance and Private Equity**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI647 or BUFN755. Formerly: BUSI647.

An advanced topics course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.

BA01	Bharat Jain	Seats (Total: 45)
	Meets October 21, 2015 - December 11, 2015	
	W 6:25pm - 10:00pm	BA 103

BUFN758F **Special Topics in Finance; Experiential Learning Project**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN758G **Special Topics in Finance; Sustainability & Investing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

DC06	Cary Krosinsky, Gabriel Thoumi	Seats (Total: 45)
	Meets August 22, 2015 - October 10, 2015	
	Sa 8:40am - 12:50pm	DC C2
	Meets 8/22, 8/29, 9/5, 9/19, 9/26, 10/3, Final 10/10.	

BUFN758M **Special Topics in Finance; Hedge Fund Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Kenneth Brodkowitz	Seats (Total: 50)
	Meets August 24, 2015 - October 12, 2015	
	TuTh 10:00am - 11:50am	VMH 1511
	MS in Finance students have priority registration.	

BUFN758N **Special Topics in Finance; Financial Econometrics I**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Alberto Rossi **Meets August 24, 2015 - October 12, 2015** MW 8:00am - 9:50am *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
0502	Alberto Rossi **Meets August 24, 2015 - October 12, 2015** MW 10:00am - 11:50am *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
0503	Alberto Rossi **Meets August 24, 2015 - October 12, 2015** MW 12:00pm - 1:50pm *For MS in Finance students only.*	Seats (Total: 0) VMH 1528

BUFN758O **Special Topics in Finance; Financial Econometrics II**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Liu Yang, Alberto Rossi **Meets October 21, 2015 - December 11, 2015** TuTh 12:00pm - 1:50pm *For MS in Finance students only.*	Seats (Total: 0) VMH 1330
0502	Alberto Rossi, Liu Yang **Meets October 21, 2015 - December 11, 2015** TuTh 2:00pm - 3:50pm *For MS in Finance students only.*	Seats (Total: 0) VMH 1330

0503	Liu Yang, Alberto Rossi	Seats (Total: 0)
	Meets October 21, 2015 - December 11, 2015	
	TuTh 10:00am - 11:50am	VMH 1330
	For MS in Finance students only.	

BUFN758R **Special Topics in Finance; Financial Institute Risk Management**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Clifford Rossi	Seats (Total: 51)
	Meets October 21, 2015 - December 11, 2015	
	MW 10:00am - 11:50am	VMH 1330
	MS in Finance students have priority registration.	

BUFN759 **Independent Study in Finance**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in finance.

Contact department for information to register for this course.

BUFN760 **Applied Equity Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN702 or BUFN760. Formerly: BUFN702.

Students will learn to analyze equity securities using the basic EIC (Economy/Industry/Company) framework used in the financial industry, paying special attention to financial statement analysis. Students also will learn the primary valuation techniques used to estimate market values for equity securities.

0501	Sarah Kroncke	Seats (Total: 47)
	Meets October 21, 2015 - December 11, 2015	
	TuTh 8:00am - 9:50am	VMH 1330
	MS in Finance students have priority registration.	

0502	Amit Bubna **Meets October 21, 2015 - December 11, 2015** TuTh 12:00pm - 1:50pm *MS in Finance students have priority registration.*	Seats (Total: 47) VMH 1528
BA01	Amit Bubna **Meets October 21, 2015 - December 11, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 45) BA 101
DC01	Amit Bubna **Meets October 21, 2015 - December 11, 2015** M 6:25pm - 10:00pm	Seats (Total: 45) DC C2
DC51	Amit Bubna **Meets October 21, 2015 - December 11, 2015** W 2:00pm - 5:35pm *MS in Finance students have priority registration.*	Seats (Total: 47) DC C1

BUFN762 **Fixed Income Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN731 or BUFN762. Formerly: BUFN731.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

0101	Mark Taranto **Meets October 21, 2015 - December 11, 2015** TuTh 8:00am - 9:50am	Seats (Total: 45) VMH 1505

BUFN765 **Fixed Income Derivatives**

Credits: 2 Grading Method: Regular

Prerequisite: BUFN762. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN731 or BUFN765. Formerly: BUFN731.

Surveys fixed income assets and related securities such as Exchange-traded bond options; bonds with embedded options; floating rate notes; caps, collars, and floors; floating rate notes with embedded options. Also surveys advanced tools for interest-rate and fixed-income portfolio management, including the use of derivative securities, and the application of binomial trees for analysis of options, and a sound understanding of stochastic yield curves.

0501	Mark Taranto **Meets October 21, 2015 - December 11, 2015** TuTh 10:00am - 11:50am *MS in Finance students have priority registration.*	Seats (Total: 50) VMH 1528

BUFN766 Financial Engineering

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN735 or BUFN766. Formerly: BUFN735.

Develop Excel and Visual Basic (VBA) models to solve problems related t portfolio management, options valuation, fixed income securities, interest rate processes, and risk management. This course thus bridges theory with the design of algorithms and models that can be directly applied in practice.

0501	Mark Taranto **Meets October 21, 2015 - December 11, 2015** MW 10:00am - 11:50am *MS in Finance students have priority registration.*	Seats (Total: 33) VMH 1518
DC51	Mark Taranto **Meets August 24, 2015 - October 12, 2015** M 2:00pm - 5:35pm *MS in Finance students have priority registration.*	Seats (Total: 47) DC C1

BUFN770 International Investment

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN724 or (BUFN770 and BUFN771). Formerly: BUFN724.

Addresses international stock markets, portfolio theory, international interest rates, exchange rates and exchange rate derivatives (options, forwards, and futures), exchange rate swaps and exchange rate exposure (operating, translation, and transaction), foreign investment strategey.

0101	Steven Heston **Meets October 21, 2015 - December 11, 2015** MW 2:00pm - 3:50pm	Seats (Total: 45) VMH 1528
0501	Steven Heston **Meets August 24, 2015 - October 12, 2015** MW 8:00am - 9:50am *MS in Finance students have priority registration.*	Seats (Total: 50) VMH 1330
DC51	Steven Heston **Meets August 24, 2015 - October 12, 2015** Th 2:00pm - 5:35pm *MS in Finance students have priority registration.*	Seats (Total: 50) DC C1

BUFN771 **International Corporate and Project Finance**

Credits: 2 Grading Method: Regular

Prerequisite: BUFN770. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN724 or (BUFN770 and BUFN771). Formerly: BUFN724.

Continuation of BUFN770. Issues addressed will include captial budgeting, project financing, exhange rate exposure (operating, translation, and transaction), foreign investment strategy, and risk management.

0501	Steven Heston **Meets October 21, 2015 - December 11, 2015** MW 5:00pm - 6:50pm *MS in Finance students have priority registration.*	Seats (Total: 39) VMH 2505

DC51	Steven Heston	Seats (Total: 47)
	Meets October 21, 2015 - December 11, 2015	
	Th 2:00pm - 5:35pm	DC C1
	MS in Finance students have priority registration.	

BUFN772 **Bank Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN722 or BUFN772. Formerly: BUFN722.

Analyze and discuss readings in bank management,with primary focus on the measurement and management of risk, including credit, market, and interest rate risk. Look at the management of liquid reserves. Examine the special nature of financial institutions, incorporating their functions, policies, services, and regulation. Study the evolving nature of the financial services industry, by reading the financial press and by having outside practitioner speakers. Focus is on U.S. banks.

0501	Matthew Canzater	Seats (Total: 47)
	Meets August 24, 2015 - October 12, 2015	
	M 6:25pm - 10:00pm	VMH 1335
	MS in Finance students have priority registration.	
DC51	Joseph Colantuoni	Seats (Total: 50)
	Meets August 24, 2015 - October 12, 2015	
	W 6:25pm - 10:00pm	DC C1
	MS in Finance students have priority registration.	

BULM Logistics, Business, and Public Policy — Fall 2015

BULM733 **Global Trade Logistics**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT773 or BULM733. Formerly: BMGT773.

Acquaints students with managerial issues in international logistics and transportation, and provides students with an understanding of issues related to import/export management and the global marketplace.

0501	Gary Cohen	Seats (Total: 0)
	Meets August 24, 2015 - October 12, 2015	
	TuTh 2:00pm - 3:50pm	VMH 1520
	For MS in Supply Chain Management students only.	

BULM742 **Global Supply Chain Resources Planning**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with an overall understanding of how firms use an advanced supply chain planning (ASCP) application as an integral part of their materials management process which includes such activities as production planning, materials requirements planning, and distribution requirements planning.

0101	Philip Evers, Thomas Corsi	Seats (Total: 31)
	Meets October 21, 2015 - December 11, 2015	
	MW 7:00pm - 8:50pm	VMH 1336

BULM744 **Global Supply Chain Risk Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; and permission of BMGT-Robert H. Smith School of Business.

Explores methods to build enterprise resillience from the perspectives of the supply chain planner and supply chain manager. Addresses concerns assessing strategic & operational risks, day to day uncertainties in demand & supply and ensuring business continuity after low probability but high impact events such as a terrorist attack or earthquake.

BA01	Sandor Boyson	Seats (Total: 45)
	Meets August 24, 2015 - October 12, 2015	
	Tu 6:25pm - 10:00pm	BA 101

GS06	Sandor Boyson	Seats (Total: 45)
	Meets October 21, 2015 - December 11, 2015	
	Sa 9:00am - 6:15pm	BLD2 2032
	Meets 11/7, 11/14, 11/21.	

BULM758B **Special Topics in Logistics, Business and Public Policy; Supply Chain Strategy**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Martin Dresner	Seats (Total: 0)
	Meets October 21, 2015 - December 11, 2015	
	Th 6:25pm - 10:00pm	VMH 1303
	For MS in Supply Chain Management students only.	

BULM758C **Special Topics in Logistics, Business and Public Policy; Assessing and Managing Supply Chain Risks**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0101	Sandor Boyson	Seats (Total: 36)
	Meets August 24, 2015 - October 12, 2015	
	MW 7:00pm - 8:50pm	VMH 1336

BULM758K **Special Topics in Logistics, Business and Public Policy; Business Fundamentals for Supply Chain Managers**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Humberto Coronado	Seats (Total: 0)
	Meets August 24, 2015 - October 12, 2015	
	MW 2:00pm - 3:50pm	VMH 1528
	For MS in Supply Chain Management students only.	

BULM758L **Special Topics in Logistics, Business and Public Policy; Lean Six Sigma for Supply Chain**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Nadya Ramel-Barnes	Seats (Total: 0)
	Meets August 24, 2015 - October 12, 2015	
	W 6:25pm - 10:00pm	VMH 1335
	For MS in Supply Chain Management students only.	

BULM758M **Special Topics in Logistics, Business and Public Policy; Emerging Economies, Government Policies, and International Trade**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

DC01	Jahangir Boroumand	Seats (Total: 45)
	Meets October 21, 2015 - December 11, 2015	
	M 6:25pm - 10:00pm	DC C1

BULM758N **Special Topics in Logistics, Business and Public Policy; Global Supply Chain Resources Planning**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Philip Evers	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	MW 5:00pm - 6:15pm	VMH 1520
	For MS in Supply Chain Management students only.	

BULM758T **Special Topics in Logistics, Business and Public Policy; Global Transportation Management**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Thomas Corsi	Seats (Total: 0)
	Meets October 21, 2015 - December 11, 2015	
	TuTh 2:00pm - 3:50pm	VMH 1520
	For MS in Supply Chain Management students only.	

BULM759 **Independent Study in Logistics Management**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Logistics Management.

Contact department for information to register for this course.

BUMK Marketing Fall 2015

BUMK706 **Marketing Analysis**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650.

Introduction to modeling tools used to support marketing analysis and decision making. Applications in strategic marketing, marketing segmentation, new product development, sales promotion analysis, pricing, design of marketing mix, sales force allocation, and direct marketing. Spreadsheet driven cases and illustrative readings.

0101	Michel Wedel	Seats (Total: 31)
	Meets August 24, 2015 - October 12, 2015	
	MW 2:00pm - 3:50pm	VMH 1511
DC01	Michel Wedel	Seats (Total: 35)
	Meets October 21, 2015 - December 11, 2015	
	W 6:25pm - 10:00pm	DC C1

BUMK715 **Consumer Behavior**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT754 or BUMK715. Formerly: BMGT754.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

DC01	Rosellina Ferraro **Meets August 24, 2015 - October 12, 2015** W 6:25pm - 10:00pm	Seats (Total: 40) DC C5
DC06	Rosellina Ferraro **Meets October 24, 2015 - December 12, 2015** Sa 8:30am - 1:00pm *Meets 10/24, 11/7, 11/21, 12/5, Final 12/12. Blended.*	Seats (Total: 45) DC C1
GS01	Rosellina Ferraro **Meets August 24, 2015 - October 12, 2015** M 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUMK716 **Brand Management**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Brand names are valuable assets for firms. Effective brand management i critical to maintaining the long-term profitability of products and services. Topics include understanding brands from the customer's perspective, building brand equity, measuring brand equity, leveraging brand equity, managing brand portfolios and managing brands over time.

BA01	Richard Newman **Meets August 24, 2015 - October 12, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) BA 101

DC01	Richard Newman	Seats (Total: 50)
	Meets October 21, 2015 - December 11, 2015	
	Th 6:25pm - 10:00pm	DC C2

BUMK717 **Integrated Marketing Communications**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Marketing communications are a complex but critical component of marketing strategy. Topics include communication tools: advertising, sales promotions, corporation communications, one-on-one or direct marketing, public relations, internet communications, sponsorship/events marketing, and marketing communcation plans: defining objectives, implementing the plan, and measuring communications effectiveness. Achieving integration in the content, look, and feel of all marketing communications is stressed.

0101	Juhi Naithani	Seats (Total: 31)
	Meets October 21, 2015 - December 11, 2015	
	MW 2:00pm - 3:50pm	VMH 1518

BUMK757 **Marketing Strategy**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Credit only granted for: BMGT757 or BUMK757. Formerly: BMGT757.

A capstone marketing course. Marketing strategies designed to manage products in selected market segments. Topics covered include competitor analysis, buyer analysis, market segments, and product strengths and weaknesses; product related issues are identified and marketing strategies developed, assessed and implemented.

0101	Instructor: TBA	Seats (Total: 45)
	Meets October 21, 2015 - December 11, 2015	
	MW 4:00pm - 5:50pm	VMH 1511

DC01	Sanjay Rao	Seats (Total: 45)
	Meets August 24, 2015 - October 12, 2015	
	Tu 6:25pm - 10:00pm	DC C4

BUMK758B **Special Topics in Marketing; Market-Based Management**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Wendy Moe	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	TuTh 12:30pm - 1:45pm	VMH 1333
	For MS in Marketing Analytics students only.	

BUMK758D **Special Topics in Marketing; Customer Analysis**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Rosellina Ferraro	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	MW 2:00pm - 3:15pm	VMH 1330
	For MS in Marketing Analytics students only.	

BUMK758E **Special Topics in Marketing; Statistical Programming**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Pallassana Kannan	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	TuTh 2:00pm - 3:15pm	VMH 1333
	For MS in Marketing Analytics students only.	

BUMK758F **Special Topics in Marketing; Business Ethics & Policies I**

(Perm req)

Credits: 1 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Wendy Moe	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	F 1:00pm - 2:50pm	VMH 1333
	For MS in Marketing Analytics students only.	

BUMK758I **Special Topics in Marketing; Innovation and Marketing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

DC06	Gaurav Bhalla	Seats (Total: 45)
	Meets September 12, 2015 - September 20, 2015	
	SaSu 9:00am - 6:30pm	DC C5
	Meets 9/12, 9/13, 9/20	

BUMK758J **Special Topics in Marketing; Pricing Strategies for Sustainable Competitive Advantage**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0101	Pallassana Kannan	Seats (Total: 45)
	Meets August 24, 2015 - October 12, 2015	
	TuTh 8:00am - 9:50am	VMH 1505

BUMK758K **Special Topics in Marketing; Advanced Marketing Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Michel Wedel	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	M 4:00pm - 6:40pm	VMH 1330
	For MS in Marketing Analytics students only.	

BUMK758O **Special Topics in Marketing; Social Media & Internet Marketing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

BA01	Jeremy Brown	Seats (Total: 45)
	Meets October 21, 2015 - December 11, 2015	
	M 6:25pm - 10:00pm	BA 101

BUMK759 **Independent Study in Marketing**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Marketing.

Contact department for information to register for this course.

BUMO Management and Organization Fall 2015

BUMO714 **Competitive and Collaborative Negotiation**

Credits: 2 Grading Method: Regular

Corequisite: BUMO715. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUMO714 or BMGT764. Formerly: BMGT764.

Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.

0101	Vijaya Venkataramani	Seats (Total: 35)
	Meets October 21, 2015 - December 11, 2015	
	TuTh 2:00pm - 3:50pm	VMH 1511

0201	Vijaya Venkataramani **Meets October 21, 2015 - December 11, 2015** TuTh 4:00pm - 5:50pm	Seats (Total: 35) VMH 1511
DC01	Rellie Rozin **Meets October 21, 2015 - December 11, 2015** W 6:25pm - 10:00pm	Seats (Total: 40) DC C2
DC06	Gosia Langa **Meets October 24, 2015 - December 12, 2015** Sa 2:00pm - 6:30pm *Meets 10/24, 11/7, 11/21, 12/5, Final 12/12.Blended.*	Seats (Total: 40) DC C1

BUMO725 **Networks and Influence**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Focuses on networks, social capital, and influence as they relate to operating effectively in organizations. It draws heavily on emerging literature related to social capital and networks, but also integrates concepts from persuasion, communication, and motivation literatures to aid your efforts to build a successful track record for yourself and your organization.

0501	Kathryn Bartol **Meets October 21, 2015 - December 11, 2015** MW 2:00pm - 3:50pm *Restricted to MS in SCM students only.*	Seats (Total: 0) VMH 1511
DC06	Kathryn Bartol **Meets August 29, 2015 - October 17, 2015** Sa 2:00pm - 6:30pm *Meets 8/29, 9/12, 9/26, 10/10, Final 10/17. Blended.*	Seats (Total: 45) DC C1

BUMO732 **Entrepreneurship and New Ventures**

Credits: 2 Grading Method: Regular

Credit only granted for: BUMO732 or BUSI660. Formerly: BMGT780.

Provides an introduction to important tools and skills necessary to create and grow a successful new venture. Integrates research findings from a range of different practical and intellectual perspectives, including psychology, sociology, economics, strategic management, and history into practical, hands on lessons for an entrepreneur. Class projects provide the foundations for new, real businesses.

DC01	David Kirsch **Meets August 24, 2015 - October 12, 2015** W 6:25pm - 10:00pm	Seats (Total: 45) DC C2

BUMO752 **Strategic Growth for Emerging Companies**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Explores the key elements of mastering the move from being a successful small company to achieving industry significance. Supplemented by readings, video and guest speakers, the course highlights the application of practical lessons leading to strategic growth and subsequent emergence as a player.

BA01	Daniel Gordon **Meets October 21, 2015 - December 11, 2015** W 6:25pm - 10:00pm	Seats (Total: 45) BA 101
GS01	Jonathan Aberman **Meets August 24, 2015 - October 12, 2015** W 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2062

BUMO754 **Global Strategy**

Credits: 2 Grading Method: Regular, Audit

Credit only granted for: BUSI674 or BUMO754. Formerly: BMGT795.

Focuses on the "strategic" and "organizational" questions that a company must address as it globalizes its footprint. Among the questions that will be addressed are: What are the potential benefits, costs, and risks associated with going abroad? What differentiates a "global" from a "multidomestic" industry? What are the sources of competitive advantage in a global context?

BA01	Paulo Prochno **Meets August 24, 2015 - October 12, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 50) BA 103

BUMO758K **Special Topics in Management and Organization; Management Consulting**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

Contact department for information to register for this course.

BUMO758L **Special Topics in Management and Organization; Leadership Development**

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

BA01	Hui Liao **Meets August 24, 2015 - December 11, 2015** M 6:25pm - 10:00pm	Seats (Total: 50) BA 103

BUMO759 **Independent Study in Management and Organization**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in management and organization.

Contact department for information to register for this course.

BUMO767 **Cross-Cultural Communication and Teamwork**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI667 or BUMO767. Formerly: BUSI667.

Provide managers a sound basis for developing such competencies. Specifically, we will develop an understanding of key cultural differences, and how these differences influence the management of individuals, groups, and organizations.

DC01	Nicole Coomber **Meets August 24, 2015 - October 12, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) DC C2

BUSI Part-Time MBA Program Fall 2015

BUSI610 **Introduction to Financial Accounting**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.

Non majors should review their registration eligibility in the statement preceding the BUSI courses.

0101	Rebecca Hann **Meets August 24, 2015 - October 12, 2015** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1505
0201	Rebecca Hann **Meets August 24, 2015 - October 12, 2015** MW 10:00am - 11:50am	Seats (Total: 0) VMH 1505
0501	Emanuel Zur **Meets August 24, 2015 - October 12, 2015** TuTh 8:00am - 9:50am *For MS in Finance students only.*	Seats (Total: 35) VMH 1330
0502	Emanuel Zur **Meets August 24, 2015 - October 12, 2015** TuTh 10:00am - 11:50am *For MS in Finance Students only.*	Seats (Total: 35) VMH 1330

BA01	Emanuel Zur **Meets October 24, 2015 - December 12, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Eduardo Martinez **Meets October 21, 2015 - December 11, 2015** M 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	Rebecca Hann **Meets October 21, 2015 - December 11, 2015** Th 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC06	Michael Kimbrough **Meets October 24, 2015 - December 12, 2015** Sa 8:30am - 1:00pm *Meets 10/24, 11/07, 11/21,12/05,12/12. Blended.*	Seats (Total: 0) DC C3
GS01	Gary Bulmash **Meets September 2, 2015 - November 11, 2015** W 6:30pm - 10:00pm *Meets 9/2, 9/16, 9/30, 10/14, 10/28, Final 11/11. Blended.*	Seats (Total: 0) BLD2 2032

BUSI622 **Managing Digital Business Markets**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can bes manage them will be examined.

0501	Sivakumar Viswanathan **Meets August 24, 2015 - October 12, 2015** TuTh 12:00pm - 1:50pm *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1330
0502	Sivakumar Viswanathan **Meets August 24, 2015 - October 12, 2015** TuTh 2:00pm - 3:50pm *For MS in Information Systems studenst only.*	Seats (Total: 0) VMH 1330

BUSI630 **Data, Models and Decisions**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

0101	Shreevardhan Lele **Meets August 24, 2015 - December 11, 2015** Th 4:00pm - 5:50pm	Seats (Total: 0) VMH 1505
0201	Shreevardhan Lele **Meets August 24, 2015 - December 11, 2015** Th 2:00pm - 3:50pm	Seats (Total: 0) VMH 1505

BUSI634 **Operations Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Operations management is concerned with efficient and effective design and operation of business processes for delivering products and/or services. Emphasis is given to process analysis and design, capacity management and bottlenecks, waiting lines and the impact of uncertainty in process performance, quality management, lean, six-sigma, and revenue management.

BA01	Yi Xu **Meets August 24, 2015 - October 12, 2015** W 6:25pm - 10:00pm	Seats (Total: 54) BA 104
DC01	Yi Xu **Meets August 24, 2015 - October 12, 2015** M 6:25pm - 10:00pm	Seats (Total: 45) DC C2
DC02	Yi Xu **Meets August 24, 2015 - October 12, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 45) DC C2
DC06	Yi Xu **Meets August 29, 2015 - October 17, 2015** Sa 8:30am - 1:00pm *Meets 8/29, 9/12, 9/26, 10/10, Final 10/17.*	Seats (Total: 54) DC C1
GS01	Wedad Elmaghraby **Meets August 24, 2015 - October 12, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) BLD2 2032

BUSI640 **Financial Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

Non majors should review their registration eligibility in the statement preceding the BUSI courses.

0101	Michael Faulkender **Meets August 24, 2015 - December 11, 2015** Tu 2:00pm - 3:50pm	Seats (Total: 0) VMH 1505
0201	Michael Faulkender **Meets August 24, 2015 - December 11, 2015** Tu 4:00pm - 5:50pm	Seats (Total: 0) VMH 1505
0501	Laurent Fresard **Meets August 24, 2015 - October 12, 2015** TuTh 12:00pm - 1:50pm *For MS in Finance students only.*	Seats (Total: 0) VMH 1528
0502	Laurent Fresard **Meets August 24, 2015 - October 12, 2015** TuTh 8:00am - 9:50am *For MS in Finance Students only.*	Seats (Total: 0) VMH 1528
0503	Laurent Fresard **Meets August 24, 2015 - October 12, 2015** TuTh 10:00am - 11:50am *For MS in Finance students only.*	Seats (Total: 0) VMH 1528

BUSI650 **Marketing Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

0101	Judy Frels **Meets October 21, 2015 - December 11, 2015** MW 4:00pm - 5:50pm	Seats (Total: 0) VMH 1505
0201	Judy Frels **Meets October 21, 2015 - December 11, 2015** MW 2:00pm - 3:50pm	Seats (Total: 0) VMH 1505
GS01	Joydeep Srivastava **Meets October 12, 2015 - November 16, 2015** M 6:30pm - 10:00pm Class time/details on ELMs *Meets 10/12, 10/19, 10/26, 11/2, 11/9, Final 11/16. Blended.*	Seats (Total: 0) BLD2 2032 ONLINE

BUSI662 **Leadership and Teamwork**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.

0101	Neta Moye **Meets August 24, 2015 - December 11, 2015** Tu 8:00am - 9:50am	Seats (Total: 0) VMH 1511
0201	Neta Moye **Meets August 24, 2015 - December 11, 2015** Th 8:00am - 9:50am	Seats (Total: 0) VMH 1511
BA01	Subrahmaniam Tangirala **Meets August 24, 2015 - October 12, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 0) BA 104

DC01	Subrahmaniam Tangirala **Meets August 24, 2015 - October 12, 2015** W 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	Subrahmaniam Tangirala **Meets August 24, 2015 - October 12, 2015** Th 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC06	Gosia Langa **Meets August 29, 2015 - October 17, 2015** Sa 2:00pm - 6:30pm *Meets 8/29, 9/12, 9/26, 10/10, Final 10/17. Blended.*	Seats (Total: 0) DC C3
GS01	Subrahmaniam Tangirala **Meets August 24, 2015 - October 5, 2015** M 6:30pm - 10:00pm *Meets 8/24, 8/31, 9/14, 9/21, 9/28, Final 10/5. Blended.*	Seats (Total: 0) BLD2 2032

BUSI672 **Global Supply Chain Management**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

DC01	Thomas Corsi **Meets October 21, 2015 - December 11, 2015** Th 6:25pm - 10:00pm	Seats (Total: 45) DC C1

GS01	Thomas Corsi **Meets October 21, 2015 - December 11, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 45) BLD2 3032

BUSI681 **Managerial Economics and Public Policy**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

0101	Rachelle Sampson **Meets August 24, 2015 - October 12, 2015** MW 2:00pm - 3:50pm	Seats (Total: 0) VMH 1505
0201	Rachelle Sampson **Meets August 24, 2015 - October 12, 2015** MW 4:00pm - 5:50pm	Seats (Total: 0) VMH 1505
BA01	Robert Windle **Meets August 24, 2015 - October 12, 2015** Th 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Kislaya Prasad **Meets August 24, 2015 - October 12, 2015** M 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	Kislaya Prasad **Meets August 24, 2015 - October 12, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 0) DC C3

DC06	Jahangir Boroumand **Meets August 29, 2015 - October 17, 2015** Sa 8:30am - 1:00pm *Meets 8/29, 9/12, 9/26, 10/10, Final 10/17. Blended.*	Seats (Total: 0) DC C3
GS01	Robert Windle **Meets September 9, 2015 - November 18, 2015** W 6:30pm - 10:00pm *Meets 9/9, 9/23, 10/7, 10/21, 11/4, Final 11/18. Blended.*	Seats (Total: 0) BLD2 2032

BUSI683 **The Global Economic Environment**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Relationship between national and international economic environments. Determinants of output, interest rates, prices and exchange rates. Analysis of effect of economic policies (fiscal, monetary, trade, tax) on the firm and the economy.

0101	Charles Olson **Meets August 24, 2015 - October 12, 2015** TuTh 2:00pm - 3:50pm	Seats (Total: 45) VMH 1511
0201	Charles Olson **Meets August 24, 2015 - October 12, 2015** TuTh 4:00pm - 5:50pm	Seats (Total: 45) VMH 1511

BUSI690 **Strategic Management**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Analyze and identify profit opportunities and threats in different industry and competitive environments; Analyze and identify a firm's valuable assets, resources and capabilities and how they might be protected, leveraged, and extended in the market; Learn how to organize your company to be the best prepared to adapt its strategy over time as the market environment changes; and how to use organic growth as well as mergers, acquisitions, joint ventures, alliances, and divestitures to ensure that the firm maintians the proper scale and scope to compete effectively over time.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

0101	Paulo Prochno **Meets October 21, 2015 - December 11, 2015** MW 10:00am - 11:50am	Seats (Total: 0) VMH 1505
0201	Paulo Prochno **Meets October 21, 2015 - December 11, 2015** MW 8:00am - 9:50am	Seats (Total: 0) VMH 1505
BA01	Paulo Prochno **Meets October 21, 2015 - December 11, 2015** Th 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	David Waguespack **Meets October 21, 2015 - December 11, 2015** W 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	David Waguespack **Meets October 21, 2015 - December 11, 2015** Tu 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC06	Paulo Prochno **Meets October 24, 2015 - December 12, 2015** Sa 2:00pm - 6:30pm *Meets 10/24, 11/7, 11/21, 12/5, Final 12/12. Blended.*	Seats (Total: 0) DC C3

GS01	David Waguespack **Meets November 23, 2015 - December 14, 2015** MTh 6:30pm - 10:00pm Class time/details on ELMs *Meets 11/23, 11/30, 12/3, 12/7, 12/10, Final 12/14. Blended.*	Seats (Total: 0) BLD2 2032 ONLINE

BUSI758A **Special Topics in Business; Federal Acquisition: Concept and Management**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Also offered as ENSE698J and PUAF689A.

0101	William Lucyshyn W 4:15pm - 6:45pm	Seats (Total: 22) Location: TBA

BUSI758B **Special Topics in Business; Data Models and Decisions**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Sean Barnes **Meets August 24, 2015 - December 11, 2015** MW 8:00am - 9:15am *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0502	Sean Barnes **Meets August 24, 2015 - December 11, 2015** MW 9:30am - 10:45am *For MS in Information Systems students only.*	Seats (Total: 0) VMH 1333
0503	Arnold Greenland **Meets August 24, 2015 - December 11, 2015** MW 11:00am - 12:15pm *For MS in Supply Chain Management students only.*	Seats (Total: 0) VMH 1520

BUSI758F **Special Topics in Business; Experiential Learning Project**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758G **Special Topics in Business; Global Consulting Practicum**

(Perm req)

Credits: 2-4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758I **Special Topics in Business; Global Supply Chain Management**

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Thomas Corsi	Seats (Total: 0)
	Meets August 24, 2015 - December 11, 2015	
	TuTh 12:30pm - 1:45pm	VMH 1520
	For MS in Supply Chain Management students only.	

BUSI758J **Special Topics in Business; Business Systems Design for Innovation**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758N **Special Topics in Business; Strategic Management for NonProfit and Public Organizations**

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Robert Sheehan	Seats (Total: 16)
	Meets August 31, 2015 - December 11, 2015	
	W 7:00pm - 9:30pm	VMH 2505

BUSI758Q **Special Topics in Business; Business Problem Solving Practicum**

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758T **Special Topics in Business; Intellectual Property Seminar for Engineers and Management**

Credits: 1 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Michael Oblon	Seats (Total: 35)
	Tu 6:00pm - 7:50pm	CSI 2120

BUSI758X **Special Topics in Business; Games of Strategy and Incentives**

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0101	Shreevardhan Lele	Seats (Total: 52)
	Meets August 24, 2015 - December 11, 2015	
	MW 10:00am - 11:50am	VMH 1511

BUSI758Y **Special Topics in Business; Tech Venture Builder**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI759 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSI761 **The Environment of International Business**

Credits: 2 Grading Method: Regular

Credit only granted for: BMGT794 or BUSI761. Formerly: BMGT794.

The international business environment as it affects company policy and procedures. In-depth analysis and comprehensive case studies of the business functions undertaken in international operations.

BA06	Peter Morici	Seats (Total: 45)
	Meets September 5, 2015 - September 26, 2015	
	SaSu 8:30am - 5:50pm	BA 103
	Meets 9/12, 9/13, and 10/3.	

BUSI764 **Business Law for Managers**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT793 or BUSI764. Formerly: BMGT793.

Survey of United States legal institutions and processes as well as substantive areas of the law that affect business. Examination of tort and contract law, the legal forms of business organization and legal liability and major regulatory laws that affect business.

DC01	Justin Reyna	Seats (Total: 45)
	Meets August 24, 2015 - October 12, 2015	
	Tu 6:25pm - 10:00pm	DC C1

BUSI771 **New Venture Financing**

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT740 or BUSI771. Formerly: BMGT740.

Development of skills for financing new ventures (both small and potentially large). Exploration of various funding sources. Criteria used in evaluation and decision process, including commercial banks, venture capital companies, small business investment companies, underwriters, private placement-financial consultants, mortgage bankers, and small business innovative research grants (U.S. Government).

DC01	Jonathan Aberman	Seats (Total: 50)
	Meets August 24, 2015 - October 12, 2015	
	M 6:25pm - 10:00pm	DC C1

BUSI785 **Project Management in Dynamic Environments**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

0101	Barnet Corwin **Meets August 24, 2015 - October 12, 2015** TuTh 10:00am - 11:50am	Seats (Total: 45) VMH 1505
DC06	Barnet Corwin **Meets August 22, 2015 - October 10, 2015** Sa 1:40pm - 5:50pm *Meets 8/22, 8/29, 9/5, 9/19, 9/26, 10/3, Final 10/10.*	Seats (Total: 45) DC C2

BUSI788B **Introduction to Global Business Experience; Doing Business in Brazil**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI788C **Introduction to Global Business Experience; Doing Business in China**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI788E **Introduction to Global Business Experience; Doing Business in Europe**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI788G **Introduction to Global Business Experience; Doing Business in India**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI788L **Introduction to Global Business Experience; Doing Business in Chile**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI788M **Introduction to Global Business Experience; Doing Business in the Middle East**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI788Y **Introduction to Global Business Experience; Doing Business in Japan and Korea**

Credits: 1 Grading Method: Regular

Introduction to the economic climate of the country and region, history political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.

Contact department for information to register for this course.

BUSI799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

For Smith School MS Students only.

Contact department for information to register for this course.

CBMG688A **Special Topics in Cell Biology and Molecular Genetics; Research Experiences**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Kevin McIver Tu 12:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 20) MCB 2119
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

CBMG688D **Special Topics in Cell Biology and Molecular Genetics; Genetics: Cell Biology I - Structure and Function**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Jose Feijo, Wenxia Song **Meets October 19, 2015 - December 11, 2015** TuTh 4:00pm - 6:00pm	Seats (Total: 30) MCB 1207

CBMG688J **Special Topics in Cell Biology and Molecular Genetics; Genetics: Immunology and Host Defense**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	David Mosser, Roy Mariuzza **Meets August 31, 2015 - October 12, 2015** MW 4:00pm - 6:00pm	Seats (Total: 20) MCB 2119

CBMG688K **Special Topics in Cell Biology and Molecular Genetics; Genetics: Molecular Virology**

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Jeffrey DeStefano	Seats (Total: 20)
	Meets October 19, 2015 - December 11, 2015	
	MW 4:00pm - 6:00pm	HJP 1216

CBMG688N **Special Topics in Cell Biology and Molecular Genetics; Write Science using the Movies**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

Prerequisite: permission of department.

0101	Antony Jose	Seats (Total: 12)
	Meets August 31, 2015 - October 26, 2015	
	TuTh 4:00pm - 6:00pm	MCB 1123

CBMG688P **Special Topics in Cell Biology and Molecular Genetics; Programming for Biology**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Stephen Mount, Najib El-Sayed	Seats (Total: 12)
	Meets October 19, 2015 - December 11, 2015	
	MW 2:00pm - 3:50pm	MCB 2119

CBMG688W **Special Topics in Cell Biology and Molecular Genetics; Principles of Microscopy**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Stephen Wolniak	Seats (Total: 10)
	MW 8:00am - 9:00am	HJP 1216

CBMG688Y **Special Topics in Cell Biology and Molecular Genetics; Bioinformatics and Genomics**

Credits: 2 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Michael Cummings, Najib El-Sayed	Seats (Total: 30)
	Meets August 31, 2015 - October 16, 2015	
	TuTh 9:00am - 10:50am	BPS 1236

CBMG688Z **Special Topics in Cell Biology and Molecular Genetics; Genetics: Teaching Science**

Credits: 1 Grading Method: Regular, Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Michelle Brooks	Seats (Total: 30)
	Tu 6:00pm - 8:00pm	BPS 1208

CBMG699 **Special Problems in Cell Biology and Molecular Genetics**

Credits: 1-3 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG699D **Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Bioinformatics and Computation Biology**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 20)
	Contact instructor or department for details.	

CBMG699J **Special Problems in Cell Biology and Molecular Genetics; Structure-Function**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Scott Walsh	Seats (Total: 15)
	F 3:00pm - 4:00pm	Location: TBA

CBMG699K **Special Problems in Cell Biology and Molecular Genetics; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

Also offered as BIOL608K, CHEM608K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 28)
	W 12:00pm - 1:40pm	BPS 1208

CBMG699T **Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Genetics of Eukaryotic Model Systems**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 20)
	Contact instructor or department for details.	

CBMG699X **Special Problems in Cell Biology and Molecular Genetics; Host Pathogen Interactions**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	David Mosser	Seats (Total: 20)
	F 9:00am - 10:30am	MCB 2119

CBMG699Y **Special Problems in Cell Biology and Molecular Genetics; Plant Cell Biology Journal Club**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Zhongchi Liu	Seats (Total: 20)
	M 11:00am - 12:00pm	BRB 3101

CBMG699Z **Special Problems in Cell Biology and Molecular Genetics; Protein Translation**

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in th area of Cell Biology and Molecular Genetics.

0101	Jonathan Dinman	Seats (Total: 20)
	F 9:30am - 10:30am	MCB 1121

CBMG789 **Seminar in Cell Biology and Molecular Genetics**

Credits: 2 Grading Method: Regular, Audit

Cell Biology and Molecular Genetics Department Seminar.

0101	Jeffrey DeStefano	Seats (Total: 20)
	F 12:00pm - 2:00pm	PLS 1164

CBMG799 **Masters Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Pre-candidacy Research.

Contact department for information to register for this course.

CBMG899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Doctoral Dissertation Research.

Contact department for information to register for this course.

CCJS Criminology and Criminal Justice Fall 2015

CCJS100 **Introduction to Criminal Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0101	Justine Madoo MW 9:00am - 9:50am M 10:00am - 10:50am	Seats (Total: 29) SKN 0200 KEY 0125	Discussion
0102	Justine Madoo MW 9:00am - 9:50am M 11:00am - 11:50am	Seats (Total: 29) SKN 0200 SQH 1107	Discussion
0103	Justine Madoo MW 9:00am - 9:50am M 12:00pm - 12:50pm	Seats (Total: 29) SKN 0200 SQH 1101	Discussion
0104	Justine Madoo MW 9:00am - 9:50am M 1:00pm - 1:50pm	Seats (Total: 29) SKN 0200 SQH 1101	Discussion

0105	Justine Madoo MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 29) SKN 0200 SQH 1101	Discussion
0106	Justine Madoo MW 9:00am - 9:50am W 11:00am - 11:50am	Seats (Total: 32) SKN 0200 WDS 1130	Discussion
0107	Justine Madoo MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 32) SKN 0200 SQH 1101	Discussion
0108	Justine Madoo MW 9:00am - 9:50am W 1:00pm - 1:50pm	Seats (Total: 32) SKN 0200 SQH 1101	Discussion
0201	Justine Madoo TuTh 3:00pm - 3:50pm Tu 9:30am - 10:20am	Seats (Total: 30) LEF 2205 LEF 1220	Discussion
0202	Justine Madoo TuTh 3:00pm - 3:50pm Tu 8:30am - 9:20am	Seats (Total: 30) LEF 2205 JMZ 0208	Discussion
0203	Justine Madoo TuTh 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 30) LEF 2205 JMZ 0208	Discussion
0204	Justine Madoo TuTh 3:00pm - 3:50pm W 10:00am - 10:50am	Seats (Total: 30) LEF 2205 KEY 0121	Discussion
0205	Justine Madoo TuTh 3:00pm - 3:50pm W 11:00am - 11:50am	Seats (Total: 30) LEF 2205 KEY 0123	Discussion
0206	Justine Madoo TuTh 3:00pm - 3:50pm Th 11:00am - 11:50am	Seats (Total: 30) LEF 2205 CHM 0127	Discussion

0207	Justine Madoo TuTh 3:00pm - 3:50pm W 12:00pm - 12:50pm	Seats (Total: 30) LEF 2205 TWS 0221	Discussion
0208	Justine Madoo TuTh 3:00pm - 3:50pm W 2:00pm - 2:50pm	Seats (Total: 30) LEF 2205 LEF 2208	Discussion
FC01	Daren Fisher MW 7:30pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 30) KEY 0123	

CCJS105 **Introduction to Criminology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0101	Kiminori Nakamura MW 10:00am - 10:50am M 9:00am - 9:50am	Seats (Total: 31) SKN 0200 LEF 1201	Discussion
0102	Kiminori Nakamura MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 31) SKN 0200 LEF 1220	Discussion
0103	Kiminori Nakamura MW 10:00am - 10:50am M 12:00pm - 12:50pm	Seats (Total: 31) SKN 0200 SQH 1107	Discussion
0104	Kiminori Nakamura MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 31) SKN 0200 SQH 1107	Discussion
0105	Kiminori Nakamura MW 10:00am - 10:50am W 9:00am - 9:50am	Seats (Total: 35) SKN 0200 LEF 1201	Discussion

0106	Kiminori Nakamura MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 35) SKN 0200 LEF 1220	Discussion
0107	Kiminori Nakamura MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 35) SKN 0200 SQH 1107	Discussion
0108	Kiminori Nakamura MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 35) SKN 0200 LEF 1201	Discussion
0201	Sally Simpson TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 35) SKN 0200 WDS 0104	Discussion
0202	Sally Simpson TuTh 12:30pm - 1:20pm Tu 8:30am - 9:20am	Seats (Total: 35) SKN 0200 LEF 1201	Discussion
0203	Sally Simpson TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 35) SKN 0200 TYD 1108	Discussion
0204	Sally Simpson TuTh 12:30pm - 1:20pm Tu 3:00pm - 3:50pm	Seats (Total: 35) SKN 0200 KEY 0102	Discussion
0205	Sally Simpson TuTh 12:30pm - 1:20pm W 12:00pm - 12:50pm	Seats (Total: 35) SKN 0200 KEY 0103	Discussion
0206	Sally Simpson TuTh 12:30pm - 1:20pm Th 8:30am - 9:20am	Seats (Total: 35) SKN 0200 LEF 1201	Discussion
0207	Sally Simpson TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 35) SKN 0200 TYD 2110	Discussion

0208	Sally Simpson TuTh 12:30pm - 1:20pm Th 3:00pm - 3:50pm	Seats (Total: 35) SKN 0200 TYD 1108	Discussion
FC01	Jacqueline Lee MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) JMZ 0125	
FC02	Omi Hodwitz MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0123	

CCJS200 **Statistics for Criminology and Criminal Justice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: CCJS100 or CCJS105; and minimum grade of C- in MATH111. Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200 or SOCY201.

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

0201	Raymond Paternoster TuTh 11:00am - 12:15pm Th 2:00pm - 2:50pm	Seats (Total: 35) SKN 0200 MTH 0304	Discussion
0202	Raymond Paternoster TuTh 11:00am - 12:15pm Th 3:00pm - 3:50pm	Seats (Total: 35) SKN 0200 PHY 1402	Discussion
0203	Raymond Paternoster TuTh 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 35) SKN 0200 SQH 1101	Discussion
0204	Raymond Paternoster TuTh 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 35) SKN 0200 SQH 1107	Discussion

0205	Raymond Paternoster TuTh 11:00am - 12:15pm Th 10:00am - 10:50am	Seats (Total: 30) SKN 0200 KEY 0120	Discussion
0206	Raymond Paternoster TuTh 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 ASY 3219	Discussion

CCJS225 **Responses to Violence**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, SCIS

Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weakness of a number of resolutions to reducing violence over the course of history using both state centered and informal control.

0101	Anastasia Tosouni TuTh 2:00pm - 3:15pm	Seats (Total: 80) TYD 1102	
0201	Anastasia Tosouni TuTh 12:30pm - 1:45pm	Seats (Total: 80) TYD 0117	

CCJS230 **Criminal Law in Action**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

Law as one of the methods of social control. Criminal law: its nature, sources and types; theories and historical developments. Behavioral and legal aspects of criminal acts. Classification and analysis of selected criminal offenses.

0101	Christine Roberts White MWF 10:00am - 10:50am	Seats (Total: 100) SQH 1120	
0201	Russell Hamill W 4:00pm - 6:30pm	Seats (Total: 100) KEY 0106	

CCJS234 **Law of Criminal Investigation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

General principles and theories of criminal procedure. Due process. Arrest, search and seizure. Recent developments. Study and evaluation of evidence and proof.

0101	David Salem Th 6:00pm - 8:30pm	Seats (Total: 100) TYD 0117

CCJS300 **Criminological and Criminal Justice Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Laure Brooks MWF 9:00am - 9:50am	Seats (Total: 60) LEF 2166
0201	Laure Brooks MWF 11:00am - 11:50am	Seats (Total: 60) LEF 2166
0301	Alan Lehman TuTh 12:30pm - 1:45pm	Seats (Total: 60) CCC 1100
0401	Alan Lehman TuTh 11:00am - 12:15pm	Seats (Total: 60) LEF 2166
SG91	Wendy Stickle MW 11:00am - 12:15pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD1 108

CCJS310 **Criminal Investigations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in detection, investigation, and solution of crime. Students will be taught basic and advanced investigative techniques utilized by law enforcement agencies. Analysis of actual cases will be used to demonstrate practical uses of these techniques.

SG91	Shawn Eastman Th 11:00am - 1:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2225	
SG92	Charles Jordan MW 9:30am - 10:45am *Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.*	Seats (Total: 40) Location: TBA	

CCJS320 **Introduction to Criminalistics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.

This class is taught using a "blended learning" format divided equally with presentation of online recorded lectures, case studies, webcasts and readings; and practical examination of criminalistics procedures and evidence identification exercises in the CCJS Crime Laboratory. There are lab fees associated with this course.

BL01	Thomas Mauriello Class time/details on ELMs M 12:00pm - 2:00pm	Seats (Total: 24) ONLINE MMH 2401	Lab
BL02	Thomas Mauriello Class time/details on ELMs M 3:00pm - 5:00pm	Seats (Total: 24) ONLINE MMH 2401	Lab
BL03	Thomas Mauriello Class time/details on ELMs M 6:00pm - 8:00pm	Seats (Total: 24) ONLINE MMH 2401	Lab

CCJS325 **Slavery in the Twenty First Century: Combating Human Trafficking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: CCJS325 or CCJS498R. Formerly: CCJS498R.

The trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.

0101	Christine Roberts White W 1:00pm - 3:30pm	Seats (Total: 60) WDS 1114
0201	Christine Roberts White M 2:00pm - 4:30pm	Seats (Total: 60) TYD 1101

CCJS331 **Contemporary Legal Policy Issues**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

In-depth examination of selected topics. Criminal responsibility. Socio-legal policy alternatives with regard to deviance. Law enforcement procedures for civil law and similar legal problems. Admissibility of evidence. Representation. Indigent's right to counsel.

0101	Christine Roberts White MWF 12:00pm - 12:50pm	Seats (Total: 75) TYD 2106
SG91	Alan Drew W 11:00am - 1:30pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 3206

CCJS340 **Policing**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100; or students who have taken courses with comparable content may contact the department.

Critical issues relating to policing. Topics include police discretion, role of police, use of force, misconduct, police research, administration, personnel, and etc.

0101	Laure Brooks MWF 10:00am - 10:50am	Seats (Total: 100) TYD 0117

0201	David Mitchell TuTh 2:00pm - 3:15pm	Seats (Total: 75) SQH 1120
SG91	Nicole Romeiser MW 12:30pm - 1:45pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 50) BLD3 3220

CCJS345 **Courts and Sentencing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

0101	Anastasia Tosouni TuTh 9:30am - 10:45am	Seats (Total: 100) TYD 0117

CCJS350 **Juvenile Delinquency**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105.

Juvenile delinquency in relation to the general problem of crime; analysis of factors underlying juvenile delinquency; treatment and prevention; organization and social responsibility of law enforcement.

0101	Brian Engelmann TuTh 9:30am - 10:45am	Seats (Total: 100) LEF 2205
0201	Justine Madoo TuTh 11:00am - 12:15pm	Seats (Total: 100) JMZ 0105
SG91	Robin Shusko M 9:30am - 10:45am Class time/details on ELMs *Restricted to CCJS students at Shady Grove.*	Seats (Total: 40) BLD3 2225 ONLINE

CCJS352 **Drugs and Crime**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100.

An analysis of the role of criminal justice in the control of drug use and abuse.

0101	Alan Lehman TuTh 3:30pm - 4:45pm	Seats (Total: 75) BPS 1250
SG91	Mark Janney M 9:30am - 12:00pm *Restricted to CCJS students at shady Grove.*	Seats (Total: 40) BLD3 3226

CCJS358B **Special Topics in Study Abroad III; Criminology in Scandanavia**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS358E **Special Topics in Study Abroad III; Drugs and Drug Prevention in Central Europe**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Prerequisites: CCJS 105 or CRIM 220; and CCJS 350 or CRIM 450; and permission of department. For majors only.

Contact department for information to register for this course.

CCJS360 **Victimology**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105.

Overview of the history and theory of victimology. Analysis of victimization patterns with special emphasis on types of victims and crimes. The interaction between victims of crime and the criminal justice system with respect to the role of the victim and the services offered to the victim.

0101	Cortney Fisher TuTh 5:00pm - 6:15pm	Seats (Total: 50) KEY 0103
SG91	Rebecca Morse TuTh 11:00am - 12:15pm	Seats (Total: 40) BLD3 3206

CCJS370 **Race, Crime and Criminal Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Prerequisite: CCJS100; or students who have taken courses with comparable content may contact the department.

Role and treatment of racial/ethnic minorities in the criminal justice system. Course will provide students with historical and theoretical framework for understanding this dynamic.

SG91	Thomas Alexander Tu 11:00am - 1:30pm	Seats (Total: 40) BLD3 3240

CCJS386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS388H **Independent Reading Course in Criminology and Criminal Justice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Designed for the needs of honor students in criminology and criminal justice.

0101	David Maimon Tu 4:00pm - 6:45pm	Seats (Total: 20) LEF 1201

CCJS389H **Independent Research in Criminology and Criminal Justice**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Independent Research for CCJS Departmental Honors students.

0101	Thomas Loughran	Seats (Total: 20)
	W 4:00pm - 6:45pm	KEY 1117

CCJS398 **Law Enforcement Field Training**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Prerequisite: junior standing. For majors only.

Contact department for information to register for this course.

CCJS399 **Independent Study in Criminology and Criminal Justice**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under direction and supervision of a faculty member.

Prerequisite: written consent of faculty under whose direction the study is to be performed, and at least twelve hours of CCJS credits.

Contact department for information to register for this course.

CCJS432 **Law of Corrections**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100, CCJS105, CCJS230, and CCJS300.

A review of the law of criminal corrections from sentencing to final release or release on parole. Probation, punishments, special treatments for special offenders, parole and pardon, and the prisoner's civil rights are also examined.

0101	Vered Krasna	Seats (Total: 50)
	M 4:00pm - 6:30pm	TYD 1118

CCJS440 **Security Administration**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS340. Credit only granted for: CCJS440 or CCJS498Z. Formerly: CCJS498Z.

Designed to introduce students to the complex issues of Security Administration and the critical terrorism issues facing the nation. Emphasis is placed on understanding the historical and contemporary issues effecting U.S. Counterterrorism Policy. It also explores the challenges facing today's security administrators including: ethics, classified information, intelligence, terrorist organizations and incidents, physical and personnel security, transportation and border security issues.

SG91	louis Morlier Tu 3:30pm - 6:00pm Class time/details on ELMs	Seats (Total: 40) BLD3 3226 ONLINE

CCJS451 **Crime and Delinquency Prevention**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300. And CCJS350 or CCJS105; or permission of BSOS-Criminology & Criminal Justice department.

Methods and programs in prevention of crime and delinquency.

0101	Anastasia Tosouni TuTh 3:30pm - 4:45pm	Seats (Total: 50) ARC 1105

CCJS452 **Treatment of Criminals and Delinquents**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS300. And CCJS350 or CCJS105; or permission of BSOS-Criminology & Criminal Justice department.

Processes and methods used to modify criminal and delinquent behavior.

0101	Lauren Porter MW 2:00pm - 3:15pm	Seats (Total: 50) BPS 1243
0201	Kiminori Nakamura TuTh 9:30am - 10:45am	Seats (Total: 50) LEF 2166

SG91	Arthur Wallenstein Th 3:30pm - 6:00pm	Seats (Total: 40) BLD3 3206

Restricted to CCJS students at shady Grove.

CCJS454 **Contemporary Criminological Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS350, CCJS300, and CCJS105.

Brief historical overview of criminological theory up to the 50's. Deviance. Labeling. Typologies. Most recent research in criminalistic subcultures and middle class delinquency. Recent proposals for "decriminalization".

0101	David Maimon TuTh 11:00am - 12:15pm	Seats (Total: 50) TYD 2106

CCJS461 **Psychology of Criminal Behavior**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105; or students who have taken courses with comparable content may contact the department. And CCJS300.

Biological, environmental, and personality factors which influence criminal behaviors. Biophysiology and crime, stress and crime, maladjustment patterns, psychoses, personality disorders, aggression and violent crime, sex-motivated crime and sexual deviations, alcohol and drug abuse, and criminal behavior.

0101	David Bierie Th 4:00pm - 6:30pm	Seats (Total: 50) TYD 2109

CCJS489H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular

Designed for students completing their honors thesis.

0101	Thomas Loughran W 4:00pm - 6:45pm	Seats (Total: 20) KEY 1117

CCJS498G **Selected Topics in Criminology and Criminal Justice; Gangs**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

Prerequisites: CCJS100 and CCJS105.

0101	Justine Madoo	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	TYD 2102

CCJS498Q **Selected Topics in Criminology and Criminal Justice; Border Security**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	louis Morlier	Seats (Total: 40)
	Tu 6:30pm - 9:00pm	BLD3 3219

CCJS498Y **Selected Topics in Criminology and Criminal Justice; Domestic Violence**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Nicole Romeiser	Seats (Total: 30)
	W 8:00am - 10:50am	Location: TBA

CCJS600 **Criminal Justice**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral)) ; or permission of BSOS-Criminology & Criminal Justice department. Formerly: CJUS600.

Current concept of criminal justice in relationship to other concepts in the field. Historical perspective. Criminal justice and social control. Operational implications. Systemic aspects. Issues of evaluation.

0101	Brian Johnson	Seats (Total: 20)
	W 4:00pm - 6:45pm	LEF 1201

CCJS601 **Policing**

Credits: 3 Grading Method: Regular

An introduction to research, theory, and applications of the causes and consequences of police behavior. Community policing, problem-solving methods, police discretion, police misconduct, police crime prevention strategies, and restorative justice.

0101	Jean McGloin	Seats (Total: 20)
	M 2:00pm - 4:45pm	Location: TBA

CCJS604 **Policy Analysis Project**

(Perm req)

Credits: 3 Grading Method: Regular

An application of statistical and conceptual tools to criminal justice data in the student's area of concentration, resulting in a paper reporting the conceptualization, analytic methods and results. The topic of the independent study will be chosen through individual consultation with the instructor.

Contact department for information to register for this course.

CCJS605 **Program Evaluation for Criminal Justice**

Credits: 3 Grading Method: Regular

Credit only granted for: CCJS605 or CCJS609. Formerly: CCJS609.

Designing, implementing and evaluating programs in criminal justice. Topics include diagnosing program needs, planning and tailoring evaluation programs, program monitoring, assessing program impact, program efficiency, and the social context of evaluation.

Contact department for information to register for this course.

CCJS611 **Statistical Tools for Criminal Justice**

Credits: 3 Grading Method: Regular

An introduction to essential statistical concepts for analyzing crime and evaluating criminal justice policies. Interpreting crime trends and correlations, risk and conditional probability analysis for repeat offenders and hot spots of crime, time series analysis, experimental statistics, effect sizes, statistical power and significance.

Contact department for information to register for this course.

CCJS620 **Fundamentals of Criminological Research**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: CCJS498D or CCJS620. Formerly: CCJS498D.

Designed to help criminology students understand and apply three important components of statistics: decriptive statistics (including probability theory), fundamentals of statistical inference, and regression analysis. Course assumes familiarity with basic descriptive statistics. The emphasis of the classes on descriptive statistics is the calculation and interpretation of summary statistical measures for describing raw data. Covers the basic rules of probability and different probabilistic processes that could describe criminal activity. The sessions on fundamentals of statistical inferences are designed to provide background for executing and interpreting hypothesis tests and confidence intervals. The latter portion of the course focuses on regession analysis. Uses the statistical software, Stata.

0101	Laura Dugan	Seats (Total: 35)
	Th 4:00pm - 6:45pm	SQH 1105

CCJS670 **Race, Crime, and Criminal Justice**

Credits: 3

Grading Method: Regular, Audit

Provides an historical overview of the operation and evolution of the criminal justice system and the impact of race. How race affects definitions of crime and criminality, the workings of the criminal justice system, the development of criminological theory, and the role of criminal justice ethics in the study of race and crime will be considered.

0101	Brian Johnson	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	JMP 1109

CCJS678F **Advanced Topics in Criminology and Criminal Justice; Criminal Law**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS699 **Special Criminological Problems**

Credits: 1-3

Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS699I **Special Criminological Problems; Communities and Crime**

Credits: 3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

0101	Lauren Porter	Seats (Total: 20)
	M 4:45pm - 7:30pm	LEF 1221

CCJS699X **Special Criminological Problems; Policy Research Methods in Criminologist**

Credits: 3 Grading Method: Regular, Audit

Supervised study of a selected problem in the field of criminal justice.

0101	Peter Reuter	Seats (Total: 15)
	F 9:00am - 11:45am	LEF 2165E

CCJS710 **Advanced Statistics Methods - Limited Dependent Variables**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed an approved doctoral level statistics course. Formerly: CRIM710.

Application of advanced data analysis strategies to criminological and criminal justice problems, with specific focus on limited dependent variables.

0101	Thomas Loughran	Seats (Total: 15)
	Th 2:30pm - 5:15pm	LEF 2165E

CCJS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CCJS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CCJS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering Fall 2015

CHBE250 **Computer Methods in Chemical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.

Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.

0101	Nam Sun Wang	Seats (Total: 95)	
	MWF 11:00am - 11:50am	JMP 3201	
	F 12:00pm - 12:50pm	JMP 3201	Discussion

CHBE301 **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.

Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.

0101	Chunsheng Wang	Seats (Total: 95)	
	TuTh 3:00pm - 4:15pm	CHE 2110	
	Th 11:00am - 11:50am	CHE 2108	Discussion

CHBE333 **Chemical Engineering Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Junior standing; and must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE333 or ENCH333. Formerly: ENCH333.

To develop oral communication skills through a series of class presentations of current chemical engineering topics.

0101	Mohammad Soltanieh W 12:00pm - 12:50pm	Seats (Total: 15) CHE 2116	
0102	Mohammad Soltanieh W 3:00pm - 3:50pm	Seats (Total: 15) CHE 2116	
0103	Mohammad Soltanieh M 1:00pm - 1:50pm	Seats (Total: 15) CHE 2136	

CHBE410 **Statistics and Design of Experiments**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE250. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE410 or ENCH476. Formerly: ENCH476.

An introduction to probability, statistics, and design of experiments for chemical engineers.

0101	Jeffery Klauda MW 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 100) CHE 2108 KEB 1110	 Discussion

CHBE422 **Chemical and Biomolecular Engineering Transport Phenomena I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101 and CHBE250; and must have completed or be concurrently enrolled in MATH241 and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE422 or ENCH422. Formerly: ENCH422.

Principals of fluid dynamics as applied to model development and proces design. Mass, momentum and energy conservation. Statics and surface tension. Equation of Continuity and Navier-Stokes Equation with application to laminar flow. Dimensional analysis. Macroscopic balances, Bernoulli Equation and friction factors with application to turbulent flow.

0101	Panagiotis Dimitrakopoulos TuTh 2:00pm - 3:15pm F 3:00pm - 3:50pm	Seats (Total: 95) CHE 2108 CHE 2110	 Discussion

CHBE437 **Chemical and Biomolecular Engineering Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE437 or ENCH437. Formerly: ENCH437.

Application of chemical engineering process and unit operation principals in small-scale semi-commercial equipment. Data from experimental observations are used to evaluate performance and efficiency of operations. Emphasis on correct presentation of results inreport form.

0101	Audaldo Ponce, Amy Karlsson Th 12:30pm - 4:30pm Th 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2145	 Lab Discussion
0201	Amy Karlsson, Audaldo Ponce Tu 12:30pm - 4:30pm Tu 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2145	 Lab Discussion
0301	Amy Karlsson, Audaldo Ponce M 1:00pm - 5:00pm M 10:00am - 10:50am	Seats (Total: 24) CHE 1145 CHE 2136	 Lab Discussion
0401	Audaldo Ponce, Amy Karlsson F 1:30pm - 5:30pm F 11:00am - 11:50am	Seats (Total: 24) CHE 1145 CHE 2108	 Lab Discussion

CHBE440 **Chemical Kinetics and Reactor Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE301. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE440 or ENCH440. Formerly: ENCH440.

Fundamentals of chemical reaction kinetics and their application to the design and operation of chemical reactors. Reaction rate theory, homogeneous reactions and catalysis electrochemical reactions. Catalytic reactor design.

0101	Srinivasa Raghavan	Seats (Total: 90)	
	MWF 2:00pm - 2:50pm W 1:00pm - 1:50pm	CHE 2110 CHE 2110	 Discussion

CHBE442 **Chemical and Biomolecular Systems Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424 and CHBE426. Credit only granted for: CHBE442 or ENCH442. Formerly: ENCH442.

Dynamic response applied to process systems. Goals and modes of control Laplace transformations, analysis and synthesis of simple control systems, closed loop response, dynamic testing.

0101	Kyu Yong Choi	Seats (Total: 90)	
	MWF 12:00pm - 12:50pm F 10:00am - 10:50am	CHE 2108 CHE 2108	 Discussion

CHBE444 **Process Engineering Economics and Design I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE444 or ENCH444. Formerly: ENCH444.

Principles of chemical engineering economics and process design. Equipment sizing and costing. Economic evaluation of projects. Flowsheet synthesis. Introduction to flowsheet simulators and concepts of flowsheet optimization. Synthesis of Heat Exchanger Networks and Distillation Sequences.

0101	Sheryl Ehrman	Seats (Total: 45)	
	MWF 9:00am - 9:50am W 10:00am - 10:50am	CHE 2108 CHE 2108	 Discussion
0102	Sheryl Ehrman	Seats (Total: 45)	
	MWF 9:00am - 9:50am W 1:00pm - 1:50pm	CHE 2108 CHE 2136	 Discussion

CHBE451 **Photovoltaics: Solar Energy**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH468L or CHBE451. Formerly: ENCH468L.

The emphasis of the class is on developing a conceptual understanding of the device physics and manufacturing processes of crystalline and thin-film photovoltaic cells, and to develop elementary computational skills necessary to quantify solar cell efficiency. The class material includes detailed, system-level energy balances necessary to understand how solar energy fits into the complete energy generation, conversion, and storage picture. Quantitative comparisons of PV technology to solar chemical conversion processes and biofuels are made.

0101	Raymond Adomaitis	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMP 2216

CHBE468 **Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Investigation of a research project under the direction of a faculty member. Comprehensive reports are required.

Contact department for information to register for this course.

CHBE484 **Metabolic Pathway Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE101 and CHBE440. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH468M or CHBE484. Formerly: ENCH468M.

The state-of-the-art in metabolic engineering, with a focus on the analysis and engineering of metabolic pathways through (chemical) engineering principles, will be covered. Topics covered include: (1) overview of biochemistry and metabolism; (2) metabolic flux analysis and isotope labeling illustrated with examples from the recent scientific literature; (3) technologies for engineering metabolic pathways; (4) metabolic control analysis and pathway regulation; (5) applications of metabolic engineering to synthesis of biofuels and therapeutics; (6) specialized and related subjects such as protein engineering and synthetic biology.

0101	Ganesh Sriram	Seats (Total: 30)
	MW 5:00pm - 6:15pm	CHE 2136

CHBE486 **Heterogeneous Catalysis for Energy Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHBE302, CHBE424, and CHBE440. Credit only granted for: CHBE486 or ENCH686.

Introduction to heterogeneous catalytic science and technology for energy conversion and hydocarbon processing. Preparation and mechanistic characterization of catalyst systems, kinetics of catalyzed reactions, adsorption and diffusion influences in heterogenious reactions. An overview of heterogeneous catalysis in various energy-related applications, including petroleum refining, chemicals from biomass, valorization of shale gas, and CO2 utilization will be introduced.

0101	Dongxia Liu	Seats (Total: 40)	
	TuTh 5:00pm - 6:15pm	CSI 2107	

CHBE492 **Multi-scale and Multiphase Flows**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHBE422; and CHBE424. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Multiphase systems for the transport and processing of emulsions (immiscible liquids), slurries (solids in liquids) and gassed liquids exhibit a variety of phenomena that occur on different length and time scales. For instance, the pressure and/or power required to process an emulsion or solid suspension depend on flow behavior on the vessel scale while the size of emulsion drops and the solids distribution depend on phenomena that occur on the particle/drop scale. In this course we examine a variety of topics that can be brought to bear on the analysis of multi-scale and multiphase flows. Fundamentals will be supported by examples from the chemical, petrochemical, food, personal care pharmaceutical and biomedical process industries.

0101	Richard Calabrese	Seats (Total: 30)	
	MWF 11:00am - 11:50am	CHE 2136	
	F 1:00pm - 1:50pm	CHE 2118	Discussion

CHEM Chemistry Fall 2015

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SEF" are restricted to students admitted into the Science in the Evening Program, administer ed through the Office of Extended Studies. For complete information, visit:OES website , email:oes@umd.edu, or call 301-405-7762.*

CHEM131 **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

Students without the math pre-requisite will be administratively dropped.

1221	Bryan Eichhorn MWF 10:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
1222	Bryan Eichhorn MWF 10:00am - 10:50am Tu 9:30am - 10:20am	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
1224	Bryan Eichhorn MWF 10:00am - 10:50am Tu 11:00am - 11:50am	Seats (Total: 34) CHM 1407 CHM 0122	 Discussion
1225	Bryan Eichhorn MWF 10:00am - 10:50am Tu 3:30pm - 4:20pm	Seats (Total: 27) CHM 1407 CHM 0124	 Discussion
1245	Bryan Eichhorn MWF 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0119	 Discussion
1246	Bryan Eichhorn MWF 10:00am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 22) CHM 1407 CHM 0119	 Discussion
1247	Bryan Eichhorn MWF 10:00am - 10:50am Th 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0119	 Discussion
1249	Bryan Eichhorn MWF 10:00am - 10:50am Th 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 1109	 Discussion

1321	Soumya Rastogi MWF 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1325	Soumya Rastogi MWF 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0128	Discussion
1327	Soumya Rastogi MWF 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 22) CHM 1407 CHM 0128	Discussion
1328	Soumya Rastogi MWF 11:00am - 11:50am Tu 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0128	Discussion
1341	Soumya Rastogi MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 34) CHM 1407 CHM 0119	Discussion
1345	Soumya Rastogi MWF 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1347	Soumya Rastogi MWF 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1348	Soumya Rastogi MWF 11:00am - 11:50am Th 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1521	Alice Mignerey MWF 1:00pm - 1:50pm Tu 9:30am - 10:20am	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1525	Alice Mignerey MWF 1:00pm - 1:50pm Tu 12:30pm - 1:20pm	Seats (Total: 30) CHM 1407 CHM 1109	Discussion

1527	Alice Mignerey MWF 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 30) CHM 1407 CHM 1109	 Discussion
1528	Alice Mignerey MWF 1:00pm - 1:50pm Tu 3:30pm - 4:20pm	Seats (Total: 22) CHM 1407 CHM 1109	 Discussion
1541	Alice Mignerey MWF 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 34) CHM 1407 CHM 0119	 Discussion
1545	Alice Mignerey MWF 1:00pm - 1:50pm Th 12:30pm - 1:20pm	Seats (Total: 34) CHM 1407 CHM 0128	 Discussion
1547	Alice Mignerey MWF 1:00pm - 1:50pm Th 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0128	 Discussion
1548	Alice Mignerey MWF 1:00pm - 1:50pm Th 3:30pm - 4:20pm	Seats (Total: 34) CHM 1407 CHM 0128	 Discussion
FC01	Soumya Rastogi TuTh 4:30pm - 5:45pm F 11:00am - 11:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 45) CHM 1407 CSI 2107	 Discussion
FC02	Soumya Rastogi TuTh 4:30pm - 5:45pm F 12:00pm - 12:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 45) CHM 1407 CSI 2107	 Discussion
FC03	Soumya Rastogi TuTh 4:30pm - 5:45pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 45) CHM 1407 CSI 2107	 Discussion

SEF1	Michelle Brooks M 6:30pm - 9:30pm W 6:30pm - 7:20pm	Seats (Total: 24) PLS 1115 CHM 0122	Discussion

Restricted to students in the SIE Program. Click here for more information.

CHEM131S **Chemistry I - Fundamentals of General Chemistry**

Credits: 3 Grading Method: Regular General Education: DSNL (if taken with CHEM132)

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

Students without the math pre-requisite will be administratively dropped . Restricted to College Park Scholars - Life Sciences.

1246	Bryan Eichhorn MWF 10:00am - 10:50am Th 2:00pm - 2:50pm	Seats (Total: 19) CHM 1407 CHM 0119	Discussion
1327	Soumya Rastogi MWF 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 19) CHM 1407 CHM 0128	Discussion
1528	Alice Mignerey MWF 1:00pm - 1:50pm Tu 3:30pm - 4:20pm	Seats (Total: 19) CHM 1407 CHM 1109	Discussion

CHEM132 **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee.

1123	Christiana Addei-Maanu M 12:00pm - 2:50pm	Seats (Total: 23) CHM 1110	Lab
1131	Christiana Addei-Maanu M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1105	Lab
1141	Christiana Addei-Maanu M 6:00pm - 8:50pm	Seats (Total: 23) CHM 1105	Lab
1221	Christiana Addei-Maanu Tu 12:30pm - 3:20pm	Seats (Total: 21) CHM 1105	Lab
1223	Christiana Addei-Maanu Tu 12:30pm - 3:20pm *This section restricted to BioFIRE students.*	Seats (Total: 24) CHM 1110	Lab
1241	Christiana Addei-Maanu Tu 6:30pm - 9:20pm	Seats (Total: 24) CHM 1105	Lab
1243	Christiana Addei-Maanu Tu 6:30pm - 9:20pm	Seats (Total: 24) CHM 1110	Lab
1311	Christiana Addei-Maanu W 8:00am - 10:50am	Seats (Total: 24) CHM 1105	Lab
1321	Christiana Addei-Maanu W 12:00pm - 2:50pm	Seats (Total: 23) CHM 1105	Lab
1331	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 23) CHM 1105	Lab
1333	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1110	Lab
1341	Christiana Addei-Maanu W 6:00pm - 8:50pm	Seats (Total: 24) CHM 1105	Lab

1343	Christiana Addei-Maanu W 6:00pm - 8:50pm	Seats (Total: 24) CHM 1111	Lab
1411	Christiana Addei-Maanu Th 8:00am - 10:50am	Seats (Total: 24) CHM 1105	Lab
1413	Christiana Addei-Maanu Th 8:00am - 10:50am	Seats (Total: 24) CHM 1110	Lab
1423	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 23) CHM 1110	Lab
1424	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1111	Lab
1425	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1112	Lab
1433	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1110	Lab
1436	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1112	Lab
1523	Christiana Addei-Maanu F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1110	Lab
1531	Christiana Addei-Maanu F 3:00pm - 5:50pm	Seats (Total: 24) CHM 1105	Lab
1533	Christiana Addei-Maanu F 3:00pm - 5:50pm	Seats (Total: 24) CHM 1110	Lab
1534	Christiana Addei-Maanu F 3:00pm - 5:50pm	Seats (Total: 24) CHM 1111	Lab
FC01	Christiana Addei-Maanu M 6:00pm - 8:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) CHM 1110	Lab

FC02	Christiana Addei-Maanu F 8:00am - 10:50am	Seats (Total: 24) CHM 1111	Lab
	Restricted to students in Freshmen Connection.		
FC03	Christiana Addei-Maanu F 8:00am - 10:50am	Seats (Total: 24) CHM 1105	Lab
	Restricted to students in Freshmen Connection.		
FC04	Christiana Addei-Maanu F 8:00am - 10:50am	Seats (Total: 24) CHM 1110	Lab
	Restricted to students in Freshmen Connection.		
FC05	Christiana Addei-Maanu F 8:00am - 10:50am	Seats (Total: 24) CHM 1112	Lab
	Restricted to students in Freshman Connection.		
FC06	Christiana Addei-Maanu W 6:00pm - 8:50pm	Seats (Total: 24) CHM 1112	Lab
	Restricted to students in Freshman Connection.		
SEF1	Christiana Addei-Maanu W 7:30pm - 10:30pm	Seats (Total: 24) CHM 1110	Lab
	Restricted to students in the SIE Program. Click here for more information.		

CHEM132C **General Chemistry I Laboratory**

Credits: 1 | Grading Method: Regular, Pass-Fail | General Education: DSNL

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Restricted to new freshmen and new transfer students in Biological Scien ce, Chemistry or Biochemistry.

1121	Christiana Addei-Maanu M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1105	Lab

1133	Christiana Addei-Maanu M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1110	Lab
1213	Christiana Addei-Maanu Tu 8:00am - 10:50am	Seats (Total: 24) CHM 1110	Lab
1231	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1105	Lab
1324	Christiana Addei-Maanu W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1111	Lab
1421	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1105	Lab
1434	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1111	Lab
1521	Christiana Addei-Maanu F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1105	Lab

CHEM132S **General Chemistry I Laboratory**

Credits: 1 Grading Method: Regular General Education: DSNL

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee. Restricted to College Park Scholars - Life Sciences.

1211	Christiana Addei-Maanu Tu 8:00am - 10:50am	Seats (Total: 24) CHM 1105	Lab
1233	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1110	Lab
1431	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1105	Lab

CHEM134 **Chemical Principles for Engineering**

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131; or minimum grade of C- in CHEM146. Credit only granted for: CHEM 134 or CHEM 135.

Basic chemistry for engineering students. Introduction to organic structures and polymers, gas laws, liquids, solids, phase changes, chemical kinetics and electrochemistry.

0103	Bonnie Dixon Th 9:30am - 10:20am	Seats (Total: 45) CHM 1109	
0104	Bonnie Dixon Th 11:00am - 11:50am	Seats (Total: 45) CHM 1109	
0105	Bonnie Dixon F 2:00pm - 2:50pm	Seats (Total: 45) CHM 1109	

CHEM135 **General Chemistry for Engineers**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

3125	Lenea Stocker TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 39) CHM 1407 CHM 2201	Discussion
3126	Lenea Stocker TuTh 11:00am - 12:15pm M 12:00pm - 12:50pm	Seats (Total: 39) CHM 1407 CHM 2201	Discussion
3127	Lenea Stocker TuTh 11:00am - 12:15pm M 1:00pm - 1:50pm	Seats (Total: 39) CHM 1407 CHM 2201	Discussion
3128	Lenea Stocker TuTh 11:00am - 12:15pm M 2:00pm - 2:50pm	Seats (Total: 39) CHM 1407 CHM 2201	Discussion

3143	Lenea Stocker TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 39) CHM 1407 CHM 2201	 Discussion
3145	Lenea Stocker TuTh 11:00am - 12:15pm W 12:00pm - 12:50pm	Seats (Total: 39) CHM 1407 CHM 2201	 Discussion
3147	Lenea Stocker TuTh 11:00am - 12:15pm W 1:00pm - 1:50pm	Seats (Total: 39) CHM 1407 CHM 2201	 Discussion
3148	Lenea Stocker TuTh 11:00am - 12:15pm W 2:00pm - 2:50pm	Seats (Total: 39) CHM 1407 CHM 2201	 Discussion
3225	Elizabeth Griffith MWF 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 34) BRB 1101 CHM 2201	 Discussion
3226	Elizabeth Griffith MWF 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 34) BRB 1101 CHM 2201	 Discussion
3227	Elizabeth Griffith MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 2201	 Discussion
3228	Elizabeth Griffith MWF 2:00pm - 2:50pm Tu 3:30pm - 4:20pm	Seats (Total: 34) BRB 1101 CHM 2201	 Discussion
3243	Elizabeth Griffith MWF 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 34) BRB 1101 CHM 2201	 Discussion
3245	Elizabeth Griffith MWF 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 34) BRB 1101 CHM 2201	 Discussion

3247	Elizabeth Griffith MWF 2:00pm - 2:50pm Th 2:00pm - 2:50pm	Seats (Total: 34) BRB 1101 CHM 2201	Discussion
3248	Elizabeth Griffith MWF 2:00pm - 2:50pm Th 3:30pm - 4:20pm	Seats (Total: 34) BRB 1101 CHM 2201	Discussion
3325	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 11:00am - 11:50am	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3326	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3327	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3328	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3343	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 11:00am - 11:50am	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3345	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3347	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 32) BRB 1101 CHM 0115	Discussion
3348	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 3:30pm - 4:20pm	Seats (Total: 32) BRB 1101 CHM 0115	Discussion

FC01	Monique Koppel TuTh 4:30pm - 5:45pm F 11:00am - 11:50am	Seats (Total: 45) SKN 0200 CHM 0115	Discussion
	Restricted to students in Freshmen Connection.		
FC02	Monique Koppel TuTh 4:30pm - 5:45pm F 12:00pm - 12:50pm	Seats (Total: 45) SKN 0200 CHM 0115	Discussion
	Restricted to students in Freshmen Connection.		
FC03	Monique Koppel TuTh 4:30pm - 5:45pm F 1:00pm - 1:50pm	Seats (Total: 45) SKN 0200 CHM 0115	Discussion
	Restricted to students in Freshmen Connection.		

CHEM136 **General Chemistry Laboratory for Engineers**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CHEM135. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

A laboratory course for engineering majors intending to take CHEM231 and CHEM232.

There is a $40.00 lab fee for this course.

0113	Natalia White M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1111	Lab
0114	Natalia White M 6:00pm - 8:50pm	Seats (Total: 24) CHM 1111	Lab
0122	Natalia White Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1111	Lab
0123	Natalia White Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1111	Lab

CHEM146 **Principles of General Chemistry**

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH140 or higher. Corequisite: CHEM147. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM143, or CHEM146. Formerly: CHEM143.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM146 is the first course in a four-semester sequence for Chemistry and Biochemistry majors.

0032	Efrain Rodriguez MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 24) CHE 2110 CHM 1109	Discussion
0033	Efrain Rodriguez MWF 9:00am - 9:50am Th 8:00am - 8:50am	Seats (Total: 24) CHE 2110 CHM 1109	Discussion

CHEM177 **Introduction to Laboratory Practices and Research in the Chemical Sciences**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Corequisite: CHEM146, CHEM131, or CHEM135. Restriction: Must be in a major within CMNS-Chemistry & Biochemistry department; or permission of CMNS-Chemistry & Biochemistry department. Credit only granted for: CHEM132, CHEM136, CHEM147, or CHEM177.

First semester laboratory course required for CHEM and BCHM majors. Introduction to laboratory techniques, including safety practices, scientific ethics, and presentation of current research topics.

0111	Earle Stone F 2:00pm - 2:50pm M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1402 CHM 1106	Lab
0120	Earle Stone F 2:00pm - 2:50pm Tu 8:00am - 10:50am	Seats (Total: 18) CHM 1402 CHM 1106	Lab
0121	Earle Stone F 2:00pm - 2:50pm Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1402 CHM 1106	Lab
0142	Earle Stone F 2:00pm - 2:50pm Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1402 CHM 1106	Lab

0150	Earle Stone F 2:00pm - 2:50pm W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1402 CHM 1106	 Lab
0153	Earle Stone F 2:00pm - 2:50pm F 3:00pm - 5:50pm	Seats (Total: 18) CHM 1402 CHM 1106	 Lab

CHEM231 **Organic Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

5125	Joseph Houck MWF 9:00am - 9:50am Tu 12:30pm - 1:20pm	Seats (Total: 42) CHM 1407 CHM 1228	 Discussion
5127	Joseph Houck MWF 9:00am - 9:50am Tu 2:00pm - 2:50pm	Seats (Total: 42) CHM 1407 CHM 1228	 Discussion
5128	Joseph Houck MWF 9:00am - 9:50am Tu 3:30pm - 4:20pm	Seats (Total: 42) CHM 1407 CHM 1228	 Discussion
5145	Joseph Houck MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 42) CHM 1407 CHM 1228	 Discussion
5147	Joseph Houck MWF 9:00am - 9:50am Th 2:00pm - 2:50pm	Seats (Total: 42) CHM 1407 CHM 1228	 Discussion

5148	Joseph Houck MWF 9:00am - 9:50am Th 3:30pm - 4:20pm	Seats (Total: 42) CHM 1407 CHM 1228	Discussion
5215	Lenea Stocker MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 42) CHM 1407 CHM 0119	Discussion
5216	Lenea Stocker MWF 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 42) CHM 1407 CHM 0119	Discussion
5217	Lenea Stocker MWF 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 42) CHM 1407 CHM 0119	Discussion
5235	Lenea Stocker MWF 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 42) CHM 1407 CHM 1224	Discussion
5236	Lenea Stocker MWF 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 42) CHM 1407 CHM 1224	Discussion
5237	Lenea Stocker MWF 12:00pm - 12:50pm Th 3:30pm - 4:20pm	Seats (Total: 42) CHM 1407 CHM 1224	Discussion
5315	Lee Friedman TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 42) CHM 1407 CHM 0115	Discussion
5316	Lee Friedman TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 42) CHM 1407 CHM 0115	Discussion
5317	Lee Friedman TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 42) CHM 1407 CHM 0115	Discussion

5335	Lee Friedman TuTh 2:00pm - 3:15pm W 12:00pm - 12:50pm	Seats (Total: 42) CHM 1407 CHM 0115	 Discussion
5336	Lee Friedman TuTh 2:00pm - 3:15pm W 1:00pm - 1:50pm	Seats (Total: 42) CHM 1407 CHM 0115	 Discussion
5337	Lee Friedman TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 42) CHM 1407 CHM 0115	 Discussion
SEF1	William Hollinsed M 6:30pm - 9:30pm W 6:30pm - 7:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 36) CHM 1402 CHM 1224	 Discussion
SEF2	William Hollinsed M 6:30pm - 9:30pm W 6:30pm - 7:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 36) CHM 1402 CHM 1228	 Discussion

CHEM232 **Organic Chemistry Laboratory I**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Laboratory sessions will begin after the first lecture of CHEM 231. Students must pay a $40.00 laboratory materials fee.

5122	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	 Lab
5123	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	 Lab

5131	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5132	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1346	Lab
5133	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5134	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1360	Lab
5141	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1342	Lab
5143	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1356	Lab
5144	Instructor: TBA	Seats (Total: 18)	
5211	Monique Koppel Tu 8:00am - 10:50am	Seats (Total: 18) CHM 1342	Lab
5223	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5224	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab
5231	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5232	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5233	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5234	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab

5241	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1342	Lab
5244	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1360	Lab
5321	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5322	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5323	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab
5331	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5332	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1346	Lab
5333	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5334	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 14) CHM 1360	Lab
5341	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1360	Lab
5412	Monique Koppel Th 8:00am - 10:50am	Seats (Total: 18) CHM 1346	Lab
5422	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5423	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5424	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab

5431	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5432	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5433	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5434	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab
5521	Monique Koppel F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5522	Monique Koppel F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5523	Monique Koppel F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab
SEF1	Monique Koppel W 7:30pm - 10:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 18) CHM 1346	Lab
SEF2	Monique Koppel W 7:30pm - 10:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 18) CHM 1342	Lab

CHEM241 **Organic Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

6115	Philip DeShong TuTh 8:00am - 9:15am M 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 0119	Discussion
6116	Philip DeShong TuTh 8:00am - 9:15am M 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 0119	Discussion
6117	Philip DeShong TuTh 8:00am - 9:15am M 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 0119	Discussion
6135	Philip DeShong TuTh 8:00am - 9:15am W 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 0119	Discussion
6136	Philip DeShong TuTh 8:00am - 9:15am W 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 0119	Discussion
6137	Philip DeShong TuTh 8:00am - 9:15am W 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 0119	Discussion
6215	Michael Montague-Smith TuTh 9:30am - 10:45am M 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6216	Michael Montague-Smith TuTh 9:30am - 10:45am M 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6217	Michael Montague-Smith TuTh 9:30am - 10:45am M 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6235	Michael Montague-Smith TuTh 9:30am - 10:45am W 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion

6236	Michael Montague-Smith TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6237	Michael Montague-Smith TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 1109	Discussion
6415	Herman Sintim TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 0128	Discussion
6416	Herman Sintim TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 0128	Discussion
6417	Herman Sintim TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 0128	Discussion
6435	Herman Sintim TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 36) CHM 1407 CHM 0128	Discussion
6436	Herman Sintim TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 36) CHM 1407 CHM 0128	Discussion
6437	Herman Sintim TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 36) CHM 1407 CHM 0128	Discussion
SEF1	Howard Fribush M 6:30pm - 9:30pm W 6:30pm - 7:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 24) PLS 1140 CHM 0127	Discussion
SEF2	Howard Fribush M 6:30pm - 9:30pm W 6:30pm - 7:20pm	Seats (Total: 10) PLS 1140 CHM 0127	Discussion

CHEM242 **Organic Chemistry Laboratory II**

Credits: 1 Grading Method: Regular

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a $40.00 laboratory materials fee.

6121	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1302	Lab
6122	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6123	Lee Friedman M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	Lab
6131	Lee Friedman M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6132	Lee Friedman M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1308	Lab
6141	Lee Friedman M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1302	Lab
6211	Lee Friedman Tu 8:00am - 10:50am	Seats (Total: 18) CHM 1302	Lab
6221	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab
6222	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6224	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab

6231	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab
6232	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6234	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	Lab
6241	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1302	Lab
6314	Lee Friedman W 8:00am - 10:50am	Seats (Total: 18) CHM 1330	Lab
6322	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6323	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	Lab
6324	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1330	Lab
6331	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6332	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 14) CHM 1308	Lab
6333	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1326	Lab
6334	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1330	Lab
6421	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab
6422	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab

6424	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab
6431	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab
6432	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6433	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1326	Lab
6434	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	Lab
6522	Lee Friedman F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6524	Lee Friedman F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1330	Lab
SEF1	Lee Friedman W 7:30pm - 10:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 18) CHM 1308	Lab
SEF2	Lee Friedman W 7:30pm - 10:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 18) CHM 1326	Lab

CHEM247 **Principles of Organic Chemistry II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM237; or permission of CMNS-Chemistry & Biochemistry department. Restriction: Must be in one of the following programs (Chemistry; Biochemistry) ; or must be an honors student. Credit only granted for: CHEM243 or CHEM247.

A continuation of CHEM237 with emphasis on molecular structure, substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

Students must pay a $40.00 laboratory materials fee.

6113	Lawrence Sita	Seats (Total: 18)	
	MWF 10:00am - 10:50am	CHM 1402	
	M 3:00pm - 5:50pm	CHM 1326	Lab
	Tu 8:00am - 8:50am	CHM 0128	Discussion
6224	Lawrence Sita	Seats (Total: 18)	
	MWF 10:00am - 10:50am	CHM 1402	
	Tu 3:30pm - 6:20pm	CHM 1326	Lab
	Tu 9:30am - 10:20am	CHM 0128	Discussion
6323	Lawrence Sita	Seats (Total: 18)	
	MWF 10:00am - 10:50am	CHM 1402	
	Tu 12:30pm - 3:20pm	CHM 1326	Lab
	Tu 11:00am - 11:50am	PLS 1119	Discussion

CHEM271 **General Chemistry and Energetics**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics thermodynamics and electrochemistry in the context of current chemistry research.

2222	John Ondov	Seats (Total: 27)	
	MW 11:00am - 11:50am	HJP 0226	
	Tu 9:30am - 10:20am	CHM 0124	Discussion
2225	John Ondov	Seats (Total: 27)	
	MW 11:00am - 11:50am	HJP 0226	
	Tu 12:30pm - 1:20pm	CHM 0124	Discussion
2227	John Ondov	Seats (Total: 27)	
	MW 11:00am - 11:50am	HJP 0226	
	Tu 2:00pm - 2:50pm	CHM 0124	Discussion
2242	John Ondov	Seats (Total: 27)	
	MW 11:00am - 11:50am	HJP 0226	
	Th 9:30am - 10:20am	CHM 0124	Discussion

2245	John Ondov MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 27) HJP 0226 CHM 0124	Discussion
2247	John Ondov MW 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 27) HJP 0226 CHM 0124	Discussion
2326	John Ondov MW 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 27) CHM 1407 CHM 0122	Discussion
2327	John Ondov MW 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 27) CHM 1407 CHM 0122	Discussion
2328	John Ondov MW 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 27) CHM 1407 CHM 0122	Discussion
2344	John Ondov MW 3:00pm - 3:50pm Th 11:00am - 11:50am	Seats (Total: 27) CHM 1407 CHM 0122	Discussion
2345	John Ondov MW 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 27) CHM 1407 CHM 0122	Discussion
2347	John Ondov MW 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 27) CHM 1407 CHM 0122	Discussion
SEF1	Daniel Gowetski M 6:00pm - 7:50pm W 6:30pm - 7:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 20) CHM 1228 CHM 0124	Discussion

CHEM272 **General Bioanalytical Chemistry Laboratory**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a $40.00 laboratory materials fee.

8013	Joseph Houck F 11:00am - 11:50am M 3:00pm - 5:50pm	Seats (Total: 24) HJP 0226 CHM 1128	 Lab
8014	Joseph Houck F 11:00am - 11:50am M 6:00pm - 8:50pm	Seats (Total: 24) HJP 0226 CHM 1128	 Lab
8022	Joseph Houck F 11:00am - 11:50am Tu 12:30pm - 3:20pm	Seats (Total: 24) HJP 0226 CHM 1128	 Lab
8023	Joseph Houck F 11:00am - 11:50am Tu 3:30pm - 6:20pm	Seats (Total: 24) HJP 0226 CHM 1112	 Lab
8032	Joseph Houck F 11:00am - 11:50am W 12:00pm - 2:50pm	Seats (Total: 24) HJP 0226 CHM 1128	 Lab
8041	Joseph Houck F 11:00am - 11:50am Th 8:00am - 10:50am	Seats (Total: 24) HJP 0226 CHM 1128	 Lab
8043	Joseph Houck F 11:00am - 11:50am Th 3:30pm - 6:20pm	Seats (Total: 24) HJP 0226 CHM 1128	 Lab
8054	Joseph Houck F 11:00am - 11:50am F 3:00pm - 5:50pm	Seats (Total: 24) HJP 0226 CHM 1128	 Lab

9012	Joseph Houck F 3:00pm - 3:50pm M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9021	Joseph Houck F 3:00pm - 3:50pm Tu 8:00am - 10:50am	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9023	Joseph Houck F 3:00pm - 3:50pm Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9024	Joseph Houck F 3:00pm - 3:50pm Tu 6:30pm - 9:20pm	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9031	Joseph Houck F 3:00pm - 3:50pm W 8:00am - 10:50am	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9033	Joseph Houck F 3:00pm - 3:50pm W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9042	Joseph Houck F 3:00pm - 3:50pm Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9051	Joseph Houck F 3:00pm - 3:50pm F 8:00am - 10:50am	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
9053	Joseph Houck F 3:00pm - 3:50pm F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 1128	 Lab
SEF1	Joseph Houck, Lee Friedman M 8:00pm - 8:50pm W 7:30pm - 10:30pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 24) CHM 1228 CHM 1128	 Lab

CHEM277 **Fundamentals of Analytical and Bioanalytical Chemistry Laboratory**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM241 and CHEM242; or minimum grade of C- in CHEM247. Corequisite: CHEM276. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM153, CHEM227, CHEM272 or CHEM277.

Quantitative analysis, inorganic analytical chemistry, and an introduction to bio-analytical instrumentation and techniques.

0232	Joseph Houck M 12:00pm - 12:50pm TuTh 3:30pm - 6:20pm	Seats (Total: 18) CHM 1228 CHM 1106	 Lab
0234	Joseph Houck M 12:00pm - 12:50pm MW 3:00pm - 5:50pm	Seats (Total: 18) CHM 1228 CHM 1106	 Lab

CHEM398 **Special Projects**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Honors projects for undergraduate students.

Limited to chemistry honors students. Consult with Dr. Montague-Smith.

Contact department for information to register for this course.

CHEM399A **Introduction to Chemical Research**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399B **Introduction to Chemical Research**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399C **Introduction to Chemical Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399X **Introduction to Chemical Research; Chemistry Instruction**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

0101	Michael Montague-Smith Contact instructor or department for details.	Seats (Total: 8)
0102	Lee Friedman Contact instructor or department for details.	Seats (Total: 30)

CHEM403 **Radiochemistry**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one year of college chemistry and one year of college physics.

Radioactive decay; introduction to properties of atomic nuclei; nuclear processes in cosmology; chemical, biomedical and environmental applications of radioactivity; nuclear processes as chemical tools; interaction of radiation with matter.

0101	Alice Mignerey MWF 12:00pm - 12:50pm	Seats (Total: 45) CHM 1224

CHEM425 **Instrumental Methods of Analysis**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM272 and CHEM271; or (CHEM276 and CHEM277).

Modern instrumentation in analytical chemistry. Electronics, spectroscopy, chromatography and electrochemistry.

Students must pay a $40.00 laboratory materials fee.

0101	Neil Blough MW 10:00am - 10:50am MW 12:00pm - 2:50pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0102	Neil Blough MW 10:00am - 10:50am TuTh 12:30pm - 3:20pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0104	Neil Blough MW 10:00am - 10:50am TuTh 9:30am - 12:20pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0105	Neil Blough MW 10:00am - 10:50am MW 6:00pm - 8:50pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab
0109	Neil Blough MW 10:00am - 10:50am TuTh 6:30pm - 9:20pm	Seats (Total: 12) KEB 1200 CHM 3228	 Lab

CHEM441 **Advanced Organic Chemistry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481; and 1 course with a minimum grade of C- from (CHEM241, CHEM247). Also offered as: CHEM641.

An advanced study of the compounds of carbon, with special emphasis on molecular orbital theory and organic reaction mechanisms.

0101	Jeffery Davis MW 4:00pm - 5:15pm	Seats (Total: 34) CHM 0128

CHEM460 **Structure Determination Using Spectroscopic Methods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed CHEM243; or CHEM247; or (CHEM241 and CHEM242). Formerly: CHEM660.

The use of infrared, ultraviolet-visible, proton and carbon-13 nuclear magnetic resonance and mass spectroscopy for structure determination in organic chemistry.

0101	Daniel Falvey	Seats (Total: 40)	
	MWF 10:00am - 10:50am	CHM 1224	

CHEM481 **Physical Chemistry I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM135; or minimum grade of C- in CHEM272 and CHEM271; or minimum grade of C- in CHEM276 and CHEM277. And (PHYS142 and MATH141).

A course primarily for chemists and chemical engineers.

0101	Millard Alexander	Seats (Total: 116)	
	MWF 9:00am - 9:50am	CHM 1402	

CHEM482 **Physical Chemistry II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM481.

A course primarily for chemists and chemical engineers.

Prerequisite: CHEM482.

0101	Devarajan Thirumalai	Seats (Total: 57)	
	MWF 9:00am - 9:50am	CHM 0115	

CHEM483 **Physical Chemistry Laboratory I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481.

An introduction to the principles and application of quantitative techniques in physical chemical measurements. Experiments will be coordinated with topics in CHEM481.

Students must pay a $40.00 lab materials fee.

0114	Earle Stone	Seats (Total: 18)	
	F 3:00pm - 3:50pm	CHM 1402	
	M 2:00pm - 4:50pm	CHM 3221	Lab

0124	Earle Stone F 3:00pm - 3:50pm Tu 2:30pm - 5:20pm	Seats (Total: 18) CHM 1402 CHM 3221	 Lab

CHEM484 **Physical Chemistry Laboratory II**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM481 and CHEM483; and must have completed or be concurrently enrolled in CHEM482.

A continuation of CHEM 483. Advanced quantitative techniques necessary in physical chemical measurements. Experiments will be coordinated with topics in CHEM 482.

Students must pay a $40.00 laboratory materials fee.

0124	Earle Stone F 11:00am - 11:50am Tu 2:30pm - 5:20pm	Seats (Total: 12) CHM 1224 CHM 3217	 Lab
0134	Earle Stone F 11:00am - 11:50am W 3:00pm - 5:50pm	Seats (Total: 12) CHM 1224 CHM 3217	 Lab

CHEM601 **Structure and Bonding of Molecules and Materials**

Credits: 3 Grading Method: Regular, Audit

Development of the tools necessary to use the knowledge of structure an bonding of molecules and solids in the practice of synthetic inorganic and materials chemistry. Several bonding models are covered, from the simple valence bond and ligand field models to a quantitative group theoretical treatment of molecular orbital theory and band structure descriptions of solids. Concepts of electron counting and oxidation state and ligand characteristics are revisited in terms of the more sophisticated bonding models. Finally, these models are used to analyze the reactivity, magnetic and spectroscopic properties of inorganic coordination compounds. Prior advanced inorganic and/or advanced quantum chemistry courses are not prerequisites.

0101	Andrei Vedernikov MWF 9:00am - 9:50am	Seats (Total: 20) CHM 0122	

CHEM608K **Selected Topics in Inorganic Chemistry; Chemistry Teaching and Learning in Higher Education**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Topics of special interest and current importance.

Also offered as BIOL608K, CBMG699K, and ENTM699K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 28)
	W 12:00pm - 1:40pm	BPS 1208

CHEM611 **Professional Skills for New Graduate Students**

Credits: 1

Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Chemistry (Master's); Biochemistry (Master's); Biochemistry (Doctoral); Chemistry (Doctoral)) ; and must be a new graduate student.

Covers a wide range of topics in professional development for new graduate students.

0101	Andrei Vedernikov	Seats (Total: 35)
	F 2:00pm - 2:50pm	CHM 1228

CHEM624 **Electrical Methods of Quantitative Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The use of conductivity, potentiometry, polarography, voltammetry, amperometry, coulometry, and chronopotentiometry in quantitative analysis.

0101	Sangbok Lee	Seats (Total: 30)
	TuTh 8:00am - 9:15am	CHM 1224

CHEM625 **Separation Methods in Quantitative Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The theory and application for quantitative analysis of various forms of chromatography, ion exchange, solvent extraction, distillation, and mass spectroscopy.

0101	Cheng Lee	Seats (Total: 15)
	TuTh 4:30pm - 5:45pm	CHM 1109

CHEM640 **Problems in Organic Reaction Mechanisms**

Credits: 1 Grading Method: Regular, Audit

A tutorial type course dealing with the basic description of the fundamentals of writing organic reaction mechanisms.

0101	Jeffery Davis	Seats (Total: 20)
	F 12:00pm - 12:50pm	CHM 1228

CHEM641 **Organic Reaction Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Also offered as: CHEM441.

0101	Jeffery Davis	Seats (Total: 34)
	MW 4:00pm - 5:15pm	CHM 0128

CHEM648K **Special Topics in Organic Chemistry; Introduction to Chemical Biology**

Credits: 3 Grading Method: Regular, Audit

Topics of special interest and current importance.

0101	Lai-Xi Wang	Seats (Total: 30)
	MW 10:00am - 11:15am	CHM 0127

CHEM684 **Chemical Thermodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

0101	Garegin Papoian	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	CHM 1228

CHEM690 **Quantum Chemistry I**

Credits: 3 Grading Method: Regular, Audit

0101	Amy Mullin	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CHM 1228

CHEM699 **Special Problems in Chemistry**

Credits: 1-6 Grading Method: Regular, Audit

Laboratory experience in a research environment.

Open only to non-thesis Master's degree candidates.

Contact department for information to register for this course.

CHEM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHEM889D **Seminar; Organic**

Credits: 1 Grading Method: Regular, Audit

0101	Efrain Rodriguez	Seats (Total: 20)
	Th 11:00am - 12:30pm	CHM 1224

CHEM889E **Seminar; Physical Chemistry**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHEM898F and CHPH709A. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	Garegin Papoian	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 1224

CHEM889F **Seminar; Chemical Physics**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHEM898E and CHPH709A. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	Garegin Papoian W 11:00am - 11:50am	Seats (Total: 15) CHM 1224

CHEM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHEM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CHIN Chinese Fall 2015

CHIN101 **Intensive Elementary Chinese I**

(Perm req)

Credits: 6 Grading Method: Regular

Prerequisite: Must have attained appropriate Foreign Language Placement Test (FLPT) score.

Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.

0101	Mei Kong, Jungjung Lee-Heitz MWF 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 13) JMZ 1215 JMZ 2120
0201	Mei Kong, Minglang Zhou MWF 11:00am - 11:50am TuTh 11:00am - 12:15pm	Seats (Total: 13) JMZ 1215 JMZ 2125
0301	Mei Kong, Jungjung Lee-Heitz MWF 2:00pm - 2:50pm TuTh 2:00pm - 3:15pm	Seats (Total: 13) JMZ 1117 JMZ 2120

CHIN105 **Elementary Chinese - Accelerated Track**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed CHIN103, CHIN102, or CHIN101.

Accelerated instruction in Mandarin Chinese at the elementary level for students with prior Chinese language background, either through home use or formal instruction.

0101	Yuli Wang MWF 10:00am - 10:50am	Seats (Total: 15) JMZ 3122

CHIN169A **Special Topics in Study Abroad I; Elementary Chinese I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169B **Special Topics in Study Abroad I; Elementary Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN201 **Intermediate Spoken Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN102; or must have attained appropriate Foreign Language Placement Test (FLPT) score.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

0101	Guiling Hu MWF 11:00am - 11:50am	Seats (Total: 15) JMZ 3122
0201	Guiling Hu MWF 1:00pm - 1:50pm	Seats (Total: 15) JMZ 0208

CHIN202 **Intermediate Written Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN103; or must have attained appropriate Foreign Language Placement Test (FLPT) score.

Reading and writing skills with emphasis on grammar and Chinese characters.

0101	Jungjung Lee-Heitz TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 2120
0201	Jungjung Lee-Heitz TuTh 12:30pm - 1:45pm	Seats (Total: 15) JMZ 2120

CHIN203 **Intermediate Spoken Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score.

Continuation of CHIN201.

Contact department for information to register for this course.

CHIN269B **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269I **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269P **Special Topics in Study Abroad II; The China Phenomenon**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269W **Special Topics in Study Abroad II; Chinese Calligraphy II**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN301 **Advanced Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

0101	Guiling Hu	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 1224

CHIN305 **Life in China through TV Plays I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN203 and CHIN204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Using authentic Chinese language material in short TV plays to learn about society and life in China.

0101	Yuli Wang	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	JMZ 3203

CHIN313 **Chinese Poetry and Prose in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Writing of the major poets, essayists, and historians from the 10th century B.C. to the 12th century A.D. No knowledge of Chinese is required.

Contact department for information to register for this course.

CHIN315 **Modern Chinese Literature in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Major works of fiction and drama from 1920 to the present read in the context of social and literary change. Emphasis on western and traditional Chinese influences on the writers and their works. No knowledge of Chinese required.

0101	Satoru Hashimoto	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 2206

CHIN321 **Classical Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN207; or permission of ARHU-School of Languages, Literatures, and Cultures department. Credit only granted for: CHIN321 or CHIN403. Formerly: CHIN403.

Introductory classical Chinese using literacy and historical sources in the original language.

0101	Mei Kong	Seats (Total: 15)
	MWF 3:00pm - 3:50pm	JMZ 3203

CHIN369B **Special Topics in Study Abroad III; Advanced Chinese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369C **Special Topics in Study Abroad III; Advanced Chinese II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369D **Special Topics in Study Abroad III; Advanced Chinese III**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369E **Special Topics in Study Abroad III; Advanced Chinese IV**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN401 **Readings in Modern Chinese I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN302; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in history, politics, economics, sociology, and literature. Emphasis on wide-ranging, rapid reading, reinforced by conversations and compositions.

0101	Guiling Hu MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 2120

CHIN418D **Special Topics in Contemporary Chinese Fiction and Film; Memories of War and Colonialism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Various approaches to the most recent textual productions of China and Taiwan. Taught in Chinese.

Taught in English. Prerequisite: CHIN302 or better or department permission. This class examines modern Chines and Sinophone (Taiwanese, Hong Kong, oversees Chinese) literature and film that explore memories of war and colonialism. Discussion topics include, but are not limited to: memory, trauma, nationalism, postcolonialism, territory, sovereignty, legitimacy, and justice.

0101	Satoru Hashimoto TuTh 2:00pm - 3:15pm	Seats (Total: 25) JMZ 0205

CHIN422 **Chinese Grammar**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Chinese sentence patterns studied and contrasted with English and in terms of current pedagogical as well as linguistic theories. Taught in English and Chinese.

0101	Minglang Zhou TuTh 9:30am - 10:45am	Seats (Total: 20) JMZ 2206

CHIN429D **Selected Topics in Chinese Studies; Reacting to the Past: East Asia**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

In-depth study of a particular aspect of Chinese cultural, linguistic, literary studies. Specific topic to be announced when course is offered. Taught in English.

Taught in English. Reacting to the Past:East Asisa is a series of historical role-playing games that explore important ideas and texts by recreating the contexts that shaped them. Students inhabit roles, are informed by classic texts and put those texts to use to deeply understand particular moments of intellectual and social ferment in China, Japan and Korea.

0101	Andrew Schonebaum	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	JMZ 2123

CHIN499 **Directed Study in Chinese**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Readings in Chinese under faculty supervision.

Contact department for information to register for this course.

CHPH Chemical Physics Fall 2015

CHPH709A **Seminar in Chemical Physics; Physical Chemistry**

Credits: 1

Grading Method: Regular, Audit

Current research and developments in chemical physics.

Also offered as CHEM898E and CHEM898F. Credit will be granted for one of the following: CHEM889E, CHEM889F, or CHPH709A.

0101	Garegin Papoian	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 1224

CHPH709B **Seminar in Chemical Physics; Statistical Physics**

Credits: 1

Grading Method: Regular, Audit

Current research and developments in chemical physics.

Also offered as PHYS709.

0101	John Weeks Tu 1:15pm - 2:30pm	Seats (Total: 30) IPT 1116

CHPH709L **Seminar in Chemical Physics; Biophysics**

Credits: 1 Grading Method: Regular, Audit

Current research and developments in chemical physics.

0101	Arpita Upadhyaya M 4:00pm - 5:30pm	Seats (Total: 10) IPT 1116

CHPH718I **Special Topics in Chemical Physics; Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

A discussion of current research problems in chemical physics.

Contact department for information to register for this course.

CHPH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHPH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHPH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CLAS Classics Fall 2015

CLAS169M **Special Topics in Study Abroad I; Myths and Legends**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CLAS170 **Greek and Roman Mythology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Also offered as: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 KEY 0126	Discussion
0102	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 26) MMH 1400 KEY 0123	Discussion
0103	Lillian Doherty MW 10:00am - 10:50am Th 8:00am - 8:50am	Seats (Total: 26) MMH 1400 JMZ 0118	Discussion
0104	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 TYD 2106	Discussion
0105	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 PLS 1119	Discussion
0107	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 KEY 0103	Discussion
0108	Lillian Doherty MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 TYD 1118	Discussion
0201	Lillian Doherty MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 TYD 2108	Discussion

0202	Lillian Doherty MW 11:00am - 11:50am F 2:00pm - 2:50pm	Seats (Total: 26) MMH 1400 TYD 2110	Discussion
0203	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 SQH 1119	Discussion
0204	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 JMZ 0125	Discussion
0205	Lillian Doherty MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 TYD 0102	Discussion
FC01	Rian Sirkus TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) CHM 1228	
FC02	Rian Sirkus TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) EGR 0110	
FC03	Rachel Mullervy MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) WDS 1130	
FC04	Ryan Moore TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) KEY 0123	
FCH1	William Proffitt W 6:00pm - 7:15pm Contact instructor or department for details. *Restricted to students in Freshmen Connection.*	Seats (Total: 24) HBK 1108	

CLAS305 Archaeological Methods and Practice

Credits: 3 Grading Method: Regular

Prerequisite: ANTH240, ARTH200, or CLAS180. Also offered as: ANTH305, ARTH305. Credit only granted for: ANTH305, ARTH305, or CLAS305.

A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.

0101	Jorge Bravo	Seats (Total: 20)
	MW 11:00am - 12:15pm	LEF 1201

CLAS309A **Special Topics in Classical Literature; The Classical Tradition in Modern Greek Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Readings in translation.

0101	Mary Pittas-Herschbach	Seats (Total: 35)
	Tu 5:00pm - 7:40pm	SQH 1107

CLAS419W **The Classical Tradition; Classical Heritage in Washington: Encounters in the Museum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examination of the role of Greek and Roman civilization in shaping the arts and ideas of western culture.

0101	Alexander Nagel	Seats (Total: 15)
	F 2:00pm - 4:30pm	SQH 1119

CLAS499 **Independent Study in Classical Languages and Literatures**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLFS Chemical and Life Sciences Fall 2015

CLFS001 **Life Science Assessment Test**

Credits: 0 Grading Method: Regular, Pass-Fail, Audit

PL01	Paul Mazzocchi	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

CLFS520 **Concepts of Modern Chemistry**

Credits: 3 Grading Method: Regular

Basic concepts and recent advances in the chemical sciences. It is designed to be a review of the first two years of college chemistry for the student persuing the Master of Life Science degree with a concentration in chemistry. Also includes material preparatory for LFSC courses such as LFSC 690 and LFSC 655. A basic text supplemented by on line text, problems and links. (Not acceptable for credit towards a degree).

Restricted to students in the CLFS program.

Click here for more course information.

PL01	Michelle Brooks	Seats (Total: 20)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE

CLFS608 **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Directo or instructor before registering.

Contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS609A **Special Topics; Food Safety and GM Foods**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

PL01	Lucinda Jack	Seats (Total: 30)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CLFS610 **Natural Products Chemistry**

Credits: 3 Grading Method: Regular

Restriction: Permission of CMNS-Chemical & Life Sciences department. Credit only granted for: LFSC609D or LFSC610. Formerly: LFSC609D.

Foundations of natural products chemistry; how nature goes about making (biosynthesizing) these compounds and elements of enzymology and genomics relevant to production of these compounds; relevance of natural products chemistry as a driving force for drug discovery and innovation in biotechnology.

PL01	Bruce Jarvis	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

CLFS620 **Modern Molecular Genetics**

Credits: 3 Grading Method: Regular, Audit

An overview of genetics including the genetic basis/components in prevalent diseases, genetically engineered organisms and foods, the importance of knowing the complete DNA sequence of organisms.

Click here for more course information.

PL01	Paul Bottino	Seats (Total: 21)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CLFS665 **Ecology and Global Change**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: LFSC609C or LFSC665. Formerly: LFSC609C.

Ecological concepts across scales ranging from the individual, to populations, communities, ecosystems, and landscapes will be presented. Global change issues will encompass alteration of atmospheric trace gases, biogeochemistry cycles, land use changes, and introduction of non-native species to new habitats.

PL01	Marcia Shofner	Seats (Total: 22)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the CLFS program.	

CMLT Comparative Literature Fall 2015

CMLT235 **Black Diaspora Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Credit only granted for: CMLT235 or ENGL235.

Examination of key works by writers of the African Diaspora. Relationship among black people across multiple geographic spaces; Africa, the Caribbean, the United States, Europe, Latin America, and Asia. Specific historical, cultural, and literary contexts; themes such as gender, sexuality, migration, slavery, freedom, and equality. Readings may include literary texts (fiction, poetry, drama), music and film. All readings in English, but drawn from multiple languages of the black diaspora, including English, Spanish, French and Portuguese.

0101	Timothy Bruno	Seats (Total: 30)
	TuTh 9:30am - 10:45am	ARC 1105

CMLT269C **Special Topics in Study Abroad II; Modern Catalan Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT270 **Global Literature and Social Change**

Credits: 3 | Grading Method: Regular | CORE: HL, D | General Education: DSHU, DVUP

Comparative study of literature through selected literary works from several non-Western cultures, viewed cross-culturally in light of particular social, political, and economic perspectives.

0101	Norrell Edwards TuTh 2:00pm - 3:15pm	Seats (Total: 30) SQH 1101
0201	Uchechi Okereke-Beshel MWF 11:00am - 11:50am	Seats (Total: 30) TYD 1108

CMLT275 **World Literature by Women**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: WMST275. Credit only granted for: CMLT275 or WMST275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0201	Manon Soulet MW 2:00pm - 3:15pm	Seats (Total: 30) JMP 2202
0301	Nataliya Pratsovyta TuTh 5:00pm - 6:15pm	Seats (Total: 30) TWS 1107

CMLT277 **Literatures of the Americas**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Comparative study of several North, South, and Central American culture with a focus on the specificities, similarities, and divergences of their literary and cultural texts.

Also offered as ENGL278L.

0201	Collier Cobb TuTh 2:00pm - 3:15pm	Seats (Total: 30) KEY 0120

CMLT280 **Film Art in a Global Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

Comparative study of a variety of film traditions from around the world including cinema from Hollywood, Europe, Asia and developing countries, with a stress on different cultural contexts for film-making and viewing.

0101	Lauren Albright MWF 12:00pm - 12:50pm	Seats (Total: 30) TWS 0205
0201	Marit Knollmueller TuTh 11:00am - 12:15pm	Seats (Total: 30) TWS 0201

CMLT369T **Special Topics in Study Abroad III; Politics and Literature in the 20th Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT369X **Special Topics in Study Abroad III; Shakespeare and Lope de Vega**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CMLT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-English department.

Contact department for information to register for this course.

CMLT398J **Special Topics in Comparative Studies; Representing the Holocaust**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as ENGL332, JWST346 and ISRL329J. Credit only granted for CMLT398J, ENGL379J, JWST419J, ENGL332, JWST346, or ISRL329J.

0101	Sheila Jelen TuTh 11:00am - 12:15pm	Seats (Total: 40) TWS 0236

CMLT398K **Special Topics in Comparative Studies; Women and Jewish Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Also offered as JWST319C, ENGL348J, and WMST348J. Credit granted for JWST319C, ENGL348J, WMST348J, or CMLT398K. An exploration of Jewish women and Jewish literacy. What kind of access throughout Jewish history have women had to Jewish languages and literatures, and how has that affected their role in Jewish society? During the modern period, what is the link between Jewish women's authorship and their reading lives? In this class we will study essays, fiction, memoirs, poetry and drama.

0101	Sheila Jelen	Seats (Total: 35)	
	TuTh 2:00pm - 3:15pm	TWS 0236	

CMLT398L **Special Topics in Comparative Studies; Sexuality in the Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Prerequisite: Two lower-level English courses, at least one in literature; or permission of department. Also offered as ENGL329C. Credit will be granted for only one of the following: CMLT398L, CMLT498L, or ENGL329C.

0101	Eugene Robinson	Seats (Total: 28)	
	TuTh 12:30pm - 1:45pm	TWS 0214	
	Tu 3:30pm - 5:30pm	TWS 1100	Lab

CMLT398N **Special Topics in Comparative Studies; Gypsy Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in comparitive studies.

Prerequisite: Two lower-level English courses, at least one in literature or permission of department. Also offered as ENGL379V. Credit will be granted for only one of the following: CMLT398N, CMLT498N, or ENGL379V.

0101	Eugene Robinson	Seats (Total: 28)	
	TuTh 11:00am - 12:15pm	TWS 0214	

CMLT699 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member.

Contact department for information to register for this course.

CMLT788B **Practicum in Comparative Studies; Discourses in Comparative Studies**

Credits: 1 Grading Method: Sat-Fail

Practical professional training for individuals and groups of students in supervised settings.

Class meets from 1pm-3pm in TWS 3134 on the following dates: 9/18, 10/16, 10/30, 11/20.

0101	Sheila Jelen	Seats (Total: 10)
	TBA	TWS 3134

CMLT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CMLT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CMLT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CMSC Computer Science Fall 2015

CMSC100 **Bits and Bytes of Computer Science**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: For first time freshmen and first time transfer computer science majors.

Students are introduced to the field (and disciplines) of computer science within a small classroom setting. They will learn to make a successful transition from high school to the university, while exploring study skills, student success plans and research opportunities.

0101	Amy Vaillancourt	Seats (Total: 50)
	M 4:00pm - 4:50pm	CSI 1122

CMSC106 **Introduction to C Programming**

Credits: 4 Grading Method: Regular

Prerequisite: MATH115. Restriction: Must not be in Computer Science program; and must not have completed any courses from CMSC131-499 course range.

Design and analysis of programs in C. An introduction to computing using structured programming concepts. Intended for students with no or minimal programming experience.

0101	Nelson Padua-Perez	Seats (Total: 40)	
	MWF 5:00pm - 5:50pm	CSI 1121	
	MW 9:00am - 9:50am	CSI 1121	Discussion

CMSC122 **Introduction to Computer Programming via the Web**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSSP

Restriction: Must not have completed any courses from CMSC131-499 course range; and must not be concurrently enrolled in CMSC131. Credit only granted for: CMSC122 or CMSC198N. Formerly: CMSC198N.

Introduction to computer programming in the context of developing full featured dynamic web sites. Uses a problem solving approach to teach basics of program design and implementation using JavaScript; relates these skills to creation of dynamic web sites; then explores both the potential and limits of web-based information sources for use in research. Intended to help relate a student's major to these emerging technologies.

0101	Fawzi Emad	Seats (Total: 75)
	MWF 12:00pm - 12:50pm	CSI 3117
0201	Fawzi Emad	Seats (Total: 75)
	MWF 1:00pm - 1:50pm	CSI 3117
0301	Fawzi Emad	Seats (Total: 75)
	MWF 2:00pm - 2:50pm	CSI 3117

CMSC131 **Object-Oriented Programming I**

(Perm req)

Credits: 4 Grading Method: Regular

Corequisite: MATH140; and permission of CMNS-Computer Science department.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

For CMSC majors only.

0101	Pedram Sadeghian MWF 2:00pm - 2:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0102	Pedram Sadeghian MWF 2:00pm - 2:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0103	Pedram Sadeghian MWF 2:00pm - 2:50pm MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0104	Pedram Sadeghian MWF 2:00pm - 2:50pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0201	Pedram Sadeghian MWF 3:00pm - 3:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0202	Pedram Sadeghian MWF 3:00pm - 3:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0203	Pedram Sadeghian MWF 3:00pm - 3:50pm MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0204	Pedram Sadeghian MWF 3:00pm - 3:50pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0301	Pedram Sadeghian MWF 11:00am - 11:50am MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion

0302	Pedram Sadeghian MWF 11:00am - 11:50am MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0303	Pedram Sadeghian MWF 11:00am - 11:50am MW 1:00pm - 1:50pm	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0304	Pedram Sadeghian MWF 11:00am - 11:50am MW 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0401	Nelson Padua-Perez MWF 12:00pm - 12:50pm MW 4:00pm - 4:50pm	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0402	Nelson Padua-Perez MWF 12:00pm - 12:50pm MW 4:00pm - 4:50pm	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0403	Nelson Padua-Perez MWF 12:00pm - 12:50pm MW 5:00pm - 5:50pm	Seats (Total: 32) CSI 1115 CSI 2118	 Discussion
0404	Nelson Padua-Perez MWF 12:00pm - 12:50pm MW 5:00pm - 5:50pm	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0501	Nelson Padua-Perez MWF 4:00pm - 4:50pm MW 1:00pm - 1:50pm	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0502	Nelson Padua-Perez MWF 4:00pm - 4:50pm MW 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 2120	 Discussion
0503	Nelson Padua-Perez MWF 4:00pm - 4:50pm MW 5:00pm - 5:50pm	Seats (Total: 32) CSI 1115 CSI 3118	 Discussion

0504	Nelson Padua-Perez MWF 4:00pm - 4:50pm MW 5:00pm - 5:50pm	Seats (Total: 32) CSI 1115 CSI 3120	 Discussion

CMSC132 **Object-Oriented Programming II**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam. Or permission of the department based on satisfactory performance on the department placement exam; and minimum grade of C- in MATH140; and permission of CMNS-Computer Science department.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

0101	Thomas Reinhardt MWF 10:00am - 10:50am MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0102	Thomas Reinhardt MWF 10:00am - 10:50am MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0103	Thomas Reinhardt MWF 10:00am - 10:50am MW 1:00pm - 1:50pm	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0104	Thomas Reinhardt MWF 10:00am - 10:50am MW 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0201	Thomas Reinhardt MWF 1:00pm - 1:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 3118	 Discussion
0202	Thomas Reinhardt MWF 1:00pm - 1:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 3118	 Discussion

0203	Thomas Reinhardt MWF 1:00pm - 1:50pm MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 1122	 Discussion
0204	Thomas Reinhardt MWF 1:00pm - 1:50pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 1122	 Discussion
0301	Thomas Reinhardt MWF 2:00pm - 2:50pm MW 8:00am - 8:50am	Seats (Total: 29) CSI 2117 CSI 2107	 Discussion
0302	Thomas Reinhardt MWF 2:00pm - 2:50pm MW 9:00am - 9:50am	Seats (Total: 29) CSI 2117 CSI 2107	 Discussion
0303	Thomas Reinhardt MWF 2:00pm - 2:50pm MW 8:00am - 8:50am	Seats (Total: 29) CSI 2117 CSI 1121	 Discussion
0401	Nelson Padua-Perez MWF 5:00pm - 5:50pm MW 3:00pm - 3:50pm	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0402	Nelson Padua-Perez MWF 5:00pm - 5:50pm MW 4:00pm - 4:50pm	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion
0403	Nelson Padua-Perez MWF 5:00pm - 5:50pm MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2107	 Discussion

CMSC198A **Special Topics in Computer Science for Non-Majors**

(Perm req)

Credits: 1-4 Grading Method: Regular

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

Contact department for information to register for this course.

CMSC198C **Special Topics in Computer Science for Non-Majors; Paths to Computer Science: Introduction**

Credits: 1 Grading Method: Regular

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

A path will be provided for students with a broad diversity in backgrounds to learn programming and computer science, including those considering a computer science major. Students will learn at their own pace with a combination of technology-based and face-to-face class structure. Students will use a problem-driven approach to build complex, interactive software systems. The course includes an introduction to a wide variety of issues relating to software, including design, problem-solving, development processes, and broader issues such as security, performance, and ethics.

0101	Ben Bederson	Seats (Total: 100)
	W 5:45pm - 8:15pm	CCC 1100

CMSC198D **Special Topics in Computer Science for Non-Majors; Paths to Computer Science: Connections**

Credits: 1 Grading Method: Regular

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

A path will be provided for students with a broad diversity in backgrounds to learn programming and computer science, including those considering a computer science major. Students will learn at their own pace with a combination of technology-based and face-to-face class structure. Students will use a problem-driven approach to build complex, interactive software systems. The course includes an introduction to a wide variety of issues relating to software, including design, problem-solving, development processes, and broader issues such as security, performance, and ethics.

0101	Ben Bederson	Seats (Total: 100)
	Contact instructor or department for details.	

CMSC198E **Special Topics in Computer Science for Non-Majors; Paths to Computer Science: Problem Solving**

Credits: 1 Grading Method: Regular

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

A path will be provided for students with a broad diversity in backgrounds to learn programming and computer science, including those considering a computer science major. Students will learn at their own pace with a combination of technology-based and face-to-face class structure. Students will use a problem-driven approach to build complex, interactive software systems. The course includes an introduction to a wide variety of issues relating to software, including design, problem-solving, development processes, and broader issues such as security, performance, and ethics.

0101	Ben Bederson Contact instructor or department for details.	Seats (Total: 100)	

CMSC216 **Introduction to Computer Systems**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Corequisite: CMSC250. Credit only granted for: CMSC212, (CMSC213 and CMSC313), or CMSC216.

Machine representation of data including integers and floating point. Modern computer architectural features and their interaction with software (registers, caches). Interaction between user programs and the OS: system class, process, and thread management. Optimizing software to improve runtime performance using both compilers and hand turning.

0101	Laurence Herman TuTh 9:30am - 10:45am MW 8:00am - 8:50am	Seats (Total: 29) CSI 1115 CSI 1122	Discussion
0102	Laurence Herman TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 29) CSI 1115 CSI 1122	Discussion
0103	Laurence Herman TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 29) CSI 1115 CSI 3118	Discussion
0104	Laurence Herman TuTh 9:30am - 10:45am MW 12:00pm - 12:50pm	Seats (Total: 29) CSI 1115 CSI 1122	Discussion
0201	Laurence Herman TuTh 11:00am - 12:15pm MW 11:00am - 11:50am	Seats (Total: 29) CSI 1115 CSI 3118	Discussion
0202	Laurence Herman TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 29) CSI 1115 CSI 3118	Discussion
0203	Laurence Herman TuTh 11:00am - 12:15pm MW 3:00pm - 3:50pm	Seats (Total: 29) CSI 1115 CSI 2118	Discussion

0204	Laurence Herman TuTh 11:00am - 12:15pm MW 3:00pm - 3:50pm	Seats (Total: 29) CSI 1115 CSI 2120	 Discussion
0301	Laurence Herman TuTh 2:00pm - 3:15pm MW 12:00pm - 12:50pm	Seats (Total: 29) CSI 3117 CSI 3118	 Discussion
0302	Laurence Herman TuTh 2:00pm - 3:15pm MW 2:00pm - 2:50pm	Seats (Total: 29) CSI 3117 CSI 3118	 Discussion
0303	Laurence Herman TuTh 2:00pm - 3:15pm MW 1:00pm - 1:50pm	Seats (Total: 29) CSI 3117 CSI 1122	 Discussion
0401	Niwaer Ai TuTh 3:30pm - 4:45pm MW 3:00pm - 3:50pm	Seats (Total: 29) CSI 3117 CSI 3118	 Discussion
0402	Niwaer Ai TuTh 3:30pm - 4:45pm MW 4:00pm - 4:50pm	Seats (Total: 29) CSI 3117 CSI 3118	 Discussion
0403	Niwaer Ai TuTh 3:30pm - 4:45pm MW 4:00pm - 4:50pm	Seats (Total: 29) CSI 3117 CSI 3120	 Discussion

CMSC250 **Discrete Structures**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Permission of CMNS-Computer Science department. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, includin finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Evan Golub TuTh 11:00am - 12:15pm MW 10:00am - 10:50am	Seats (Total: 29) CSI 3117 CSI 3120	 Discussion

0102	Evan Golub TuTh 11:00am - 12:15pm MW 11:00am - 11:50am	Seats (Total: 29) CSI 3117 CSI 3120	 Discussion
0103	Evan Golub TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 29) CSI 3117 CSI 3120	 Discussion
0201	Evan Golub TuTh 12:30pm - 1:45pm MW 2:00pm - 2:50pm	Seats (Total: 34) CSI 1115 CSI 3120	 Discussion
0202	Evan Golub TuTh 12:30pm - 1:45pm MW 10:00am - 10:50am	Seats (Total: 34) CSI 1115 CSI 1121	 Discussion
0203	Evan Golub TuTh 12:30pm - 1:45pm MW 11:00am - 11:50am	Seats (Total: 34) CSI 1115 CSI 1121	 Discussion
0204	Evan Golub TuTh 12:30pm - 1:45pm MW 12:00pm - 12:50pm	Seats (Total: 34) CSI 1115 CSI 2117	 Discussion
0301	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 8:00am - 8:50am	Seats (Total: 34) CSI 1115 CSI 3120	 Discussion
0302	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 9:00am - 9:50am	Seats (Total: 34) CSI 1115 CSI 3120	 Discussion
0303	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 1:00pm - 1:50pm	Seats (Total: 34) CSI 1115 CSI 3120	 Discussion
0304	Clyde Kruskal TuTh 3:30pm - 4:45pm MW 3:00pm - 3:50pm	Seats (Total: 34) CSI 1115 CSI 3120	 Discussion

CMSC250H Discrete Structures

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Permission of CMNS-Computer Science department. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, includin finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Thomas Goldstein	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	CSI 3118	
	MW 11:00am - 11:50am	CSI 2117	Discussion

CMSC289I **Rise of the Machines: Artificial Intelligence Comes of Age**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: DSSP, SCIS

0101	James Reggia	Seats (Total: 60)
	TuTh 11:00am - 12:15pm	WDS 1114

CMSC298A **Special Topics in Computer Science**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

A course designed to allow a lower level student to pursue a specialize topic or project.

Contact department for information to register for this course.

CMSC330 **Organization of Programming Languages**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

The semantics of programming languages and their run-time organization. Several different models of languages are discussed, including procedural (e.g., C, Pascal), functional (e.g., ML, LISP), rule-based (e.g., Prolog), and object-oriented (e.g., C++, Smalltalk). Run-time structures, including dynamic versus static scope rules, storage for strings, arrays, records, and object inheritance are explored.

0101	Niwaer Ai	Seats (Total: 29)	
	TuTh 5:00pm - 6:15pm	CSI 1115	
	F 1:00pm - 1:50pm	CSI 3120	Discussion

0102	Niwaer Ai TuTh 5:00pm - 6:15pm F 11:00am - 11:50am	Seats (Total: 29) CSI 1115 CSI 2118	Discussion
0103	Niwaer Ai TuTh 5:00pm - 6:15pm F 12:00pm - 12:50pm	Seats (Total: 29) CSI 1115 CSI 3120	Discussion
0104	Niwaer Ai TuTh 5:00pm - 6:15pm F 2:00pm - 2:50pm	Seats (Total: 29) CSI 1115 CSI 3120	Discussion
0201	Niwaer Ai TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 29) CSI 3117 CSI 3120	Discussion
0202	Niwaer Ai TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 29) CSI 3117 CSI 3120	Discussion
0203	Niwaer Ai TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 29) CSI 3117 CSI 2120	Discussion
0301	Michael Hicks TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0302	Michael Hicks TuTh 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0303	Michael Hicks TuTh 2:00pm - 3:15pm F 3:00pm - 3:50pm	Seats (Total: 32) CSI 1115 CSI 2120	Discussion
0304	Michael Hicks TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2118	Discussion

CMSC351 **Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department. Credit only granted for: CMSC251 or CMSC351. Additional information: CMSC351 may not count as one of the required upper level CMSC courses for students who are required to have 24 upper level CMSC credits for graduation, i.e. for students who became computer science majors prior to Fall, 2002.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

0101	Howard Elman MWF 9:00am - 9:50am	Seats (Total: 120) CSI 1115
0201	Clyde Kruskal MWF 10:00am - 10:50am	Seats (Total: 88) CSI 3117
0301	Clyde Kruskal MWF 3:00pm - 3:50pm	Seats (Total: 110) MMH 1400

CMSC390 **Honors Paper**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be admitted to the Computer Science Honors Program.

Special study or research directed toward preparation of honors paper.

Contact department for information to register for this course.

CMSC396H **Computer Science Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Must have admission into Computer Science Departmental Honors Program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC297 or CMSC396. Formerly: CMSC297.

Overview of computer science research activities, techniques, and tools. Diverse research areas will be covered, including systems, networks, artificial intelligence, human-computer interaction, software engineering, graphics, vision, and theory.

0101	Vibha Sazawal, Richard Gerber W 1:00pm - 2:00pm	Seats (Total: 25) AVW 3258

CMSC411 **Computer Systems Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0101	Michelle Hugue TuTh 3:30pm - 4:45pm	Seats (Total: 50) CSI 1122	
0201	Michelle Hugue TuTh 2:00pm - 3:15pm	Seats (Total: 50) CSI 1122	

CMSC412 **Operating Systems**

(Perm req)

Credits: 4 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

A hands-on introduction to operating systems, including topics in: multiprogramming, communication and synchronization, memory management, IO subsystems, and resource scheduling polices. The laboratory component consists of constructing a small kernel, including functions for device IO, multi-tasking, and memory management.

0101	Neil Spring TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 25) CSI 1121 CSI 1121	 Discussion
0102	Neil Spring TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 25) CSI 1121 CSI 1121	 Discussion

CMSC414 **Computer and Network Security**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

An introduction to the topic of security in the context of computer systems and networks. Identify, analyze, and solve network-related security problems in computer systems. Fundamentals of number theory, authentication, and encryption technologies, as well as the practical problems that have to be solved in order to make those technologies workable in a networked environment, particularly in the wide-area Internet environment.

0101	Peter Keleher MW 3:30pm - 4:45pm	Seats (Total: 70) CSI 2117
0201	Michelle Mazurek TuTh 2:00pm - 3:15pm	Seats (Total: 70) CSI 2117

CMSC417 **Computer Networks**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Computer networks and architectures. The OSI model including discussion and examples of various network layers. A general introduction to existing network protocols. Communication protocol specification, analysis, and testing.

0101	Ashok Agrawala TuTh 12:30pm - 1:45pm	Seats (Total: 60) CSI 2117
0201	Samrat Bhattacharjee TuTh 11:00am - 12:15pm	Seats (Total: 50) CSI 1122

CMSC420 **Data Structures**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Description, properties, and storage allocation of data structures including lists and trees. Algorithms for manipulating structures. Applications from areas such as data processing, information retrieval, symbol manipulation, and operating systems.

0101	Venkatramanan Subrahmanian TuTh 11:00am - 12:15pm	Seats (Total: 70) CSI 2117

0201	Michelle Hugue	Seats (Total: 50)
	MW 3:30pm - 4:45pm	CSI 3117

CMSC421 **Introduction to Artificial Intelligence**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Areas and issues in artificial intelligence, including search, inference, knowledge representation, learning, vision, natural languages, expert systems, robotics. Implementation and application of programming languages (e.g. LISP, PROLOG, SMALLTALK), programming techniques (e.g. pattern matching, discrimination networks) and control structures (e.g. agendas, data dependencies).

0101	Dana Nau	Seats (Total: 50)
	TuTh 3:30pm - 4:45pm	CSI 1121

CMSC422 **Introduction to Machine Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Recommended: STAT400.

Machine Learning studies representations and algorithms that allow machines to improve their performance on a task from experience. This is a broad overview of existing methods for machine learning and an introduction to adaptive systems in general. Emphasis is given to practical aspects of machine learning and data mining.

0101	Hal Daume	Seats (Total: 70)
	TuTh 9:30am - 10:45am	CSI 3117

CMSC423 **Bioinformatic Algorithms, Databases, and Tools**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

An introduction to the main algorithms, databases, and tools used in bioinformatics. Topics may include assembly and analysis of genome sequences, reconstructing evolutionary histories, predicting protein structure, and clustering of biological data. Use of scripting languages to perform analysis tasks on biological data. No prior knowledge of biology is assumed.

0101	Hector Corrada Bravo	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	CSI 1122

CMSC424 **Database Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Students are introduced to database systems and motivates the database approach as a mechanism for modeling the real world. An in-depth coverage of the relational model, logical database design, query languages, and other database concepts including query optimization, concurrency control; transaction management, and log based crash recovery. Distributed and Web database architectures are also discussed.

0101	Amol Deshpande	Seats (Total: 50)
	MW 3:30pm - 4:45pm	CSI 1121
0201	Amol Deshpande	Seats (Total: 50)
	MW 2:00pm - 3:15pm	CSI 1121

CMSC426 **Image Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC420; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

An introduction to basic techniques of analysis and manipulation of pictorial data by computer. Image input/output devices, image processing software, enhancement, segmentation, property measurement, Fourier analysis. Computer encoding, processing, and analysis of curves.

0101	Larry Davis	Seats (Total: 40)
	TuTh 9:30am - 10:45am	CSI 1122

CMSC427 **Computer Graphics**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: MATH240; and minimum grade of C- in CMSC420; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

An introduction to the principles of computer graphics. Includes an introduction to graphics displays and systems. Introduction to the mathematics of affine and projective transformations, perspective, curve and surface modeling, algorithms for hidden-surface removal, color models, methods for modeling illumination, shading, and reflection.

0101	Zia Khan	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	CSI 1121

CMSC430 **Introduction to Compilers**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Topics include lexical analysis, parsing, intermediate representations, program analysis, optimization, and code generation.

0101	Jeffrey Foster	Seats (Total: 50)
	MW 2:00pm - 3:15pm	CSI 1122

CMSC433 **Programming Language Technologies and Paradigms**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Programming language technologies (e.g., object-oriented programming), their implementations and use in software design and implementation.

0101	Walter Cleaveland	Seats (Total: 70)
	TuTh 3:30pm - 4:45pm	BPS 1243

CMSC434 **Introduction to Human-Computer Interaction**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and PSYC100; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Assess usability by quantitative and qualitative methods. Conduct task analyses, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Apply design processes and guidelines to develop professional quality user interfaces. Build low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools such as graphic editors and a graphical programming environment (eg: Visual Basic, Java).

0101	Vibha Sazawal TuTh 11:00am - 12:15pm	Seats (Total: 44) CSI 2107
0201	James Gilkeson TuTh 9:30am - 10:45am	Seats (Total: 44) CSI 2107

CMSC435 **Software Engineering**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: 1 course with a minimum grade of C- from (CMSC412, CMSC417, CMSC420, CMSC430, CMSC433); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

State-of-the-art techniques in software design and development. Laboratory experience in applying the techniques covered. Structured design, structured programming, top-down design and development, segmentation and modularization techniques, iterative enhancement, design and code inspection techniques, correctness, and chief-programmer teams. The development of a large software project.

0101	James Purtilo TuTh 12:30pm - 1:45pm	Seats (Total: 50) CSI 1121

CMSC436 **Programming Handheld Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Fundamental principles and concepts that underlie the programming of handheld systems, such as mobile phones, personal digital assistants, and tablet computers. Particular emphasis will be placed on concepts such as limited display size, power, memory and CPU speed; and new input modalities, where handheld systems differ substantially from non-handheld systems, and thus require special programming tools and approaches. Students will apply these concepts and principles in the context of an existing handset programming platform.

0101	Adam Porter	Seats (Total: 50)
	TuTh 9:30am - 10:45am	CSI 1121

CMSC451 **Design and Analysis of Computer Algorithms**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Fundamental techniques for designing efficient computer algorithms, proving their correctness, and analyzing their complexity. General topics include sorting, selection, graph algorithms, and basic algorithm design paradigms (such as divide-and-conquer, dynamic programming and greedy algorithms), lower bounds and NP-completeness.

0101	David Mount	Seats (Total: 70)
	TuTh 9:30am - 10:45am	CSI 2117

CMSC456 **Cryptology**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: (any two 400-level MATH courses; or (CMSC351 and CMSC330)); and permission of CMNS-Computer Science department. Or must be a CMSC graduate student. Also offered as: MATH456. Credit only granted for: CMSC456 or MATH456.

Importance in protecting data in communications between computers. The subject lies on the border between mathematics and computer science. Mathematical topics include number theory and probability, and computer science topics include complexity theory.

0101	Lawrence Washington	Seats (Total: 55)
	MWF 9:00am - 9:50am	CSI 3117

CMSC460 **Computational Methods**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Tobias von Petersdorff MWF 12:00pm - 12:50pm	Seats (Total: 28) MTH B0429
0201	Gil Ariel TuTh 2:00pm - 3:15pm	Seats (Total: 25) MTH 0409

CMSC466 **Introduction to Numerical Analysis I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: AMSC466. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Pierre-Emmanuel Jabin TuTh 11:00am - 12:15pm	Seats (Total: 30) SPH 0302

CMSC498A **Selected Topics in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC499A **Independent Undergraduate Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC631 **Program Analysis and Understanding**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC330; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Techniques for static analysis of source code and modern programming paradigms. Analysis techniques: data flow analysis, program dependence graphs, program slicing, abstract interpretation. The meaning of programs: denotational semantics, partial evaluation. Advanced treatment of abstraction mechanisms: polymorphic types, operation overloading, inheritance, object-oriented programming and ML-like programming languages.

0101	David Van Horn	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSI 2107

CMSC660 **Scientific Computing I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have knowledge of C or Fortran. And CMSC466, AMSC466, AMSC460, or CMSC460; or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: AMSC660. Credit only granted for: AMSC660 or CMSC660.

Monte Carlo simulation, numerical linear algebra, nonlinear systems and continuation method, optimization, ordinary differential equations. Fundamental techniques in scientific computation with an introduction to the theory and software for each topic.

0101	Maria Cameron	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	MTH B0421

CMSC663 **Advanced Scientific Computing I**

Credits: 3 Grading Method: Regular

Also offered as: AMSC663. Credit only granted for: AMSC663 or CMSC663.

In the sequence CMSC663, CMSC664 students work on a year-long individual project to develop software for a scientific task in a high perfomance computing environment. Lectures will be given on available computational environments, code development, implementation of parallel algorithms.

0101	Radu Balan	Seats (Total: 22)
	TuTh 9:30am - 10:45am	CSI 4122

CMSC666 **Numerical Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC466 or AMSC466; and MATH410. Also offered as: AMSC666. Credit only granted for: AMSC666 or CMSC666.

Interpolation and approximation, numerical integration, solution algorithms for nonlinear systems of equations, numerical optimization.

0101	Tobias von Petersdorff	Seats (Total: 22)
	MWF 1:00pm - 1:50pm	ITV 1111

CMSC701 **Computational Genomics**

Credits: 3 Grading Method: Regular, Audit

An introduction to the algorithms and heuristics used in the analysis o biological sequences. Includes an introduction to string matching and alignment algorithms, phylogenetic analysis, string reconstruction (genome assembly), and sequence pattern recognition (gene and motif finding). A particular emphasis will be placed on the design of efficient algorithms and on techniques for analyzing the time and space complexity of these algorithms. Computational concepts will be presented in the context of current biological applications. No prior knowledge of biology necessary.

0101	Mihai Pop	Seats (Total: 32)
	TuTh 12:30pm - 1:45pm	CSI 3120

CMSC714 **High Performance Computing Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC411 and CMSC412; or permission of instructor.

Slected topics in high-performance systems, including contemporary architectures, interconnection topologies, shared memory and message-passing systems, multi-threaded kernels, latency avoidance and hiding techniques, methods for data and workload partitioning performance profiling, debugging.

0101	Jeffrey Hollingsworth	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 3120

CMSC723 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor. Also offered as: LING723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Additional information: May only receive PhD Comp. credit for CMSC723 or CMSC823, not both.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantics interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Marine Carpuat	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	CSI 2120

CMSC725 **Geographical Information Systems and Spatial Databases**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC424 and CMSC420; or permission of instructor.

Topics in geographic information systems and spatial databases. Integrates related results from databases, cartography, geography, computer graphics, file access methods, computational geometry, image processing, data structures, and programming languages. Topics include: cartographic modeling, principles of cartography, methods from computational geometry, principles of spatial databases, access methods, and spatial data structures. The architecture of some existing spatial databases and geographic information systems will be examined in greater detail.

0101	Hanan Samet	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CSI 2118

CMSC733 **Computer Processing of Pictorial Information**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC420.

Input, output, and storage of pictorial information. Pictures as information sources, efficient encoding, sampling, quantization, approximation. Position-invariant operations on pictures, digital and optical implementations, the pax language, applications to matched and spatial frequency filtering. Picture quality, image enhancement and image restoration. Picture properties and pictorial pattern recognition. Processing of complex pictures; figure extraction, properties of figures. Data structures for pictures description and manipulation; picture languages. Graphics systems for alphanumeric and other symbols, line drawings of two- and three-dimensional objects, cartoons and movies.

0101	John Aloimonos	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	CSI 2120

CMSC798 **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

CMSC798A **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

CMSC majors only. Other majors require permission of department.

Contact department for information to register for this course.

CMSC798E **Graduate Seminar in Computer Science**

Credits: 1 Grading Method: Regular, Audit

0101	Jeffrey Foster	Seats (Total: 40)
	F 11:00am - 12:50pm	CSI 2117

CMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CMSC818A **Advanced Topics in Computer Systems; Advanced Topics in Computer Systems**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

Contact department for information to register for this course.

CMSC818E **Advanced Topics in Computer Systems; Distributed and Cloud-Based Storage System**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

0101	Peter Keleher	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSI 2118

CMSC818V **Advanced Topics in Computer Systems; Security in Distributed Systems and Networks**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

Also offered as ENEE757. Credit granted for ENEE757 or CMSC818V.

0101	Tudor Dumitras	Seats (Total: 25)
	MW 11:00am - 12:15pm	JMP 1202

CMSC828A **Advanced Topics in Information Processing**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Contact department for information to register for this course.

CMSC828C **Advanced Topics in Information Processing; Statistical Pattern Recognition**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Also offered as ENEE633. Credit will be granted for CMSC828C or ENEE633 .

0101	Ramalingam Chellappa	Seats (Total: 68)
	MW 11:00am - 12:15pm	KEB 1200

CMSC838A **Advanced Topics in Programming Languages**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Advanced topics selected by faculty from the literature of programming languages to suit the interest and background of students.

Contact department for information to register for this course.

CMSC858A **Advanced Topics in Theory of Computing**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

Contact department for information to register for this course.

CMSC858F **Advanced Topics in Theory of Computing; Network Design**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

0101	Mohammad Hajiaghayi	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	CSI 3118

CMSC858K **Advanced Topics in Theory of Computing; Introduction to Quantum Information Processing**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

0101	Andrew Childs	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	CSI 3120

CMSC858L **Advanced Topics in Theory of Computing; Foundations of Machine Learning**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

0101	Aravind Srinivasan	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	CSI 3120

CMSC878 **Advanced Topics in Numerical Methods; Fast Multipole Methods: Fundamentals and Applications**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of numerical methods to suit the interest and background of students.

0101	Ramani Duraiswami	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSI 3118

CMSC878A **Advanced Topics in Numerical Methods**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the literature of numerical methods to suit the interest and background of students.

Contact department for information to register for this course.

CMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Prerequisite: permission of instructor. Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students. May be repeated for credit.

Contact department for information to register for this course.

CMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM Communication Fall 2015

COMM107 **Oral Communication: Principles and Practices**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

Attendance on the first day of classes is mandatory.

0101	Christopher Volker MWF 2:00pm - 2:50pm	Seats (Total: 18) PLS 1176
0201	Hagar Attia MWF 10:00am - 10:50am	Seats (Total: 18) HBK 1108
0301	Taylor Hahn TuTh 12:30pm - 1:45pm	Seats (Total: 18) PLS 1168
0401	Brooke Fowler MWF 10:00am - 10:50am	Seats (Total: 18) PLS 1184
0501	Jean Vandenbosch MWF 1:00pm - 1:50pm	Seats (Total: 18) PLS 1184
0601	Sarah Nelson TuTh 12:30pm - 1:45pm	Seats (Total: 18) PLS 1180
0701	Rowena Kirby-Straker TuTh 11:00am - 12:15pm	Seats (Total: 18) PLS 1176
0801	Kyle Stephan MWF 9:00am - 9:50am	Seats (Total: 18) TLF 1103
0901	Timothy Penn TuTh 11:00am - 12:15pm	Seats (Total: 18) PLS 1168
1001	L Gordon TuTh 12:30pm - 1:45pm	Seats (Total: 18) SKN 0104
1101	Tyler Page MWF 10:00am - 10:50am	Seats (Total: 18) SKN 1112

1201	Jaclyn Bruner TuTh 9:30am - 10:45am	Seats (Total: 18) PLS 1176
1301	Lauren Hunter TuTh 9:30am - 10:45am	Seats (Total: 18) PLS 1162
1401	Samuel Rubin TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1162
1501	Karen Lamb TuTh 12:30pm - 1:45pm	Seats (Total: 18) PLS 1184
1601	L Gordon TuTh 6:30pm - 7:45pm	Seats (Total: 19) SQH 1123
1701	Rodney Schwartz MWF 10:00am - 10:50am	Seats (Total: 19) HBK 1112
1801	Devin Scott TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1180
1901	Samuel Rubin TuTh 2:00pm - 3:15pm	Seats (Total: 19) SKN 0104
2001	Christopher Volker MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1180
2101	Kathleen Brown MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1158
2201	Brooke Fowler MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1184
2301	Elizabeth Gardner MWF 10:00am - 10:50am	Seats (Total: 19) TLF 1103
2401	Ashlee Richman MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1180
2501	Jessica Lu MWF 10:00am - 10:50am	Seats (Total: 19) ARC 1103

2601	Hagar Attia MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1176
2701	Karen Lamb MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1180
2801	Karen Lamb MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1180
2901	Claire Tills MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1184
3001	Jessica Lu MWF 9:00am - 9:50am	Seats (Total: 19) SKN 0104
3101	William Howell TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1184
3201	Hagar Attia MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1146
3301	Nathaniel Stoltz TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1180
3401	Nathaniel Stoltz TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1176
3501	Claire Tills MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1184
3601	Denise Erskine-Meusa MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1180
3701	Christopher Volker MWF 8:00am - 8:50am	Seats (Total: 19) HBK 0108
3801	Christopher Volker MWF 9:00am - 9:50am	Seats (Total: 19) HBK 0108
3901	Lauren Hunter TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1162

4101	Jiankun Guo MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1172
4201	Ashlee Richman MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1113
4301	Rodney Schwartz MWF 11:00am - 11:50am	Seats (Total: 19) JMP 1109
4401	Karen Lamb TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1172
4501	Paula Nadler MW 5:00pm - 6:15pm	Seats (Total: 19) KEY 0126
4601	Karen Lamb MW 2:00pm - 3:15pm	Seats (Total: 19) SQH 1107
4701	Stephanie Madden MW 3:00pm - 4:15pm	Seats (Total: 19) KEY 0123
4801	Julie Gowin MW 5:00pm - 6:15pm	Seats (Total: 19) SKN 1115
4901	Karen Lamb MW 3:30pm - 4:45pm	Seats (Total: 19) SQH 1107
5001	Christopher Volker MW 5:00pm - 6:15pm	Seats (Total: 19) KEY 0125
5101	Tyler Page MWF 9:00am - 9:50am	Seats (Total: 19) TYD 2108
5201	Liang Ma TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMP 1202
5301	Ning Xie TuTh 9:30am - 10:45am	Seats (Total: 19) WDS 0104
5401	Megan Fitzmaurice TuTh 8:00am - 9:15am	Seats (Total: 19) EDU 2101

5601	Taylor Hahn TuTh 8:00am - 9:15am	Seats (Total: 19) KEY 0124
5701	Rong Ma TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1111
5801	Rong Ma TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1168
5901	Taylor Hahn TuTh 3:30pm - 4:45pm	Seats (Total: 19) SQH 1107
6001	L Gordon TuTh 5:00pm - 6:15pm	Seats (Total: 19) SQH 1123
6101	L Gordon TuTh 3:30pm - 4:45pm	Seats (Total: 19) SQH 1123
6201	Samuel Rubin TuTh 3:30pm - 4:45pm	Seats (Total: 19) KEY 0124
6301	Lara Hollenczer TuTh 5:00pm - 6:15pm	Seats (Total: 19) KEY 0124
6401	Julie Gowin MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1115
6501	Sreashi Das MW 2:00pm - 3:15pm	Seats (Total: 19) HBK 1112
6601	Jaclyn Bruner TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1180
6701	Ning Xie TuTh 11:00am - 12:15pm	Seats (Total: 19) KEY 0124
6801	Rodney Schwartz MWF 9:00am - 9:50am	Seats (Total: 19) HBK 1112
7001	Savreen Hundal MWF 11:00am - 11:50am	Seats (Total: 19) KNI 1105

7101	Cassondra Pope MWF 1:00pm - 1:50pm	Seats (Total: 19) ASY 3207
7201	Cassondra Pope MWF 2:00pm - 2:50pm	Seats (Total: 19) KEY 0123
7401	Sreashi Das MW 5:00pm - 6:15pm	Seats (Total: 19) PLS 1162
7501	Lauren Bender TuTh 3:30pm - 4:45pm	Seats (Total: 19) KNI 1103
7601	Sarah Nelson TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1146
7901	Annie Nichols MWF 1:00pm - 1:50pm	Seats (Total: 19) EGR 3106
8101	Julio Bermejo MWF 8:00am - 8:50am	Seats (Total: 19) KEY 1117
8301	Luke Capizzo MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1168
8401	Luke Capizzo MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1168
8501	Cassondra Pope MWF 3:00pm - 3:50pm	Seats (Total: 19) PLS 1180
8601	Cassondra Pope MW 5:00pm - 6:15pm	Seats (Total: 19) PLS 1180
8701	Jean Vandenbosch MW 3:30pm - 4:45pm	Seats (Total: 19) SKN 1115
8901	Kyle Stephan MWF 11:00am - 11:50am	Seats (Total: 19) PHY 1219
9001	Rodney Schwartz MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1113

9101	Sumin Fang TuTh 8:00am - 9:15am	Seats (Total: 19) KNI 1103
9201	Sumin Fang TuTh 9:30am - 10:45am	Seats (Total: 19) SQH 2120
9301	Lara Hollenczer TuTh 12:30pm - 1:45pm	Seats (Total: 19) KNI 1103
9401	Nma Obike MW 5:00pm - 6:15pm	Seats (Total: 19) SYM 0209
9501	Christopher Swift TuTh 6:30pm - 7:45pm	Seats (Total: 19) KEY 0121
9801	Nma Obike MW 6:30pm - 7:45pm	Seats (Total: 19) SYM 0209
9901	Meridith Styer MWF 11:00am - 11:50am	Seats (Total: 19) HBK 0123
9902	Lara Hollenczer TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1162
9903	Savreen Hundal MWF 10:00am - 10:50am	Seats (Total: 19) HBK 0108
9904	Kimberley Hannah TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1162
9905	Thomas McCloskey TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1113
9906	Jean Vandenbosch MW 2:00pm - 3:15pm	Seats (Total: 19) WDS 1127
9907	Timothy Penn MW 6:30pm - 7:45pm	Seats (Total: 19) KEY 0125
9908	Samuel Rubin TuTh 5:00pm - 6:15pm	Seats (Total: 19) KEY 0120

9909	Samuel Rubin TuTh 6:30pm - 7:45pm	Seats (Total: 19) KEY 0120
9910	Morgan Hess MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1115
9911	Morgan Hess MWF 11:00am - 11:50am	Seats (Total: 19) ARC 1103
9912	Sarah Nelson TuTh 9:30am - 10:45am	Seats (Total: 19) KEY 0117
9913	Christopher Swift TuTh 3:30pm - 4:45pm	Seats (Total: 19) ASY 3217
9914	Meridith Styer MWF 9:00am - 9:50am	Seats (Total: 19) KEY 0123
9915	Meridith Styer MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0123
9916	Liang Ma TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1176
9917	Sarah Nelson TuTh 8:00am - 9:15am	Seats (Total: 19) KEY 0117
9918	Taylor Hahn TuTh 9:30am - 10:45am	Seats (Total: 19) KNI 1103
9919	Cassondra Pope MWF 9:00am - 9:50am	Seats (Total: 19) KEY 0119
9920	Nora Murphy MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1176
9921	Nora Murphy MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1176
9922	Samuel Rubin TuTh 11:00am - 12:15pm	Seats (Total: 19) WDS 1127

9923	Lara Hollenczer TuTh 11:00am - 12:15pm	Seats (Total: 19) KNI 1103
9924	Jung Kyu LIM MWF 8:00am - 8:50am	Seats (Total: 19) SKN 1115
9925	Jung Kyu LIM MWF 9:00am - 9:50am	Seats (Total: 19) SKN 1115
FC01	Gerry Strumpf MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KNI 1103
FC02	Denise Erskine-Meusa TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) SKN 1112
FC03	Victoria Mends-Cole TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) SKN 1112
FC04	Denise Erskine-Meusa MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) ASY 3203
FC05	Denise Erskine-Meusa MW 6:00pm - 7:15pm	Seats (Total: 19) KEY 0117

COMM200 **Critical Thinking and Speaking**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

Attendance on the first day of classes is mandatory.

0101	Thomas McCloskey TuTh 12:30pm - 1:45pm	Seats (Total: 19) HBK 1108

0201	Rebecca Alt TuTh 8:00am - 9:15am	Seats (Total: 19) SKN 0104
0301	Thomas McCloskey TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1146
0401	Rebecca Alt TuTh 9:30am - 10:45am	Seats (Total: 19) SKN 0104

COMM230 **Argumentation and Debate**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.

Attendance on the first day of class is mandatory.

0101	Jade Olson TuTh 8:00am - 9:15am	Seats (Total: 24) TLF 1101
0201	Jade Olson TuTh 9:30am - 10:45am	Seats (Total: 24) BPS 1232
0301	Megan Fitzmaurice TuTh 11:00am - 12:15pm	Seats (Total: 24) PLS 1184
0401	Megan Fitzmaurice TuTh 12:30pm - 1:45pm	Seats (Total: 24) PLS 1146

COMM231 **News Writing and Reporting for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Or permission of ARHU-Communication department. Credit only granted for: JOUR201, JOUR201P, JOUR231, or COMM231. Formerly: JOUR231.

Introduction to writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.

0101	Richard Toth	Seats (Total: 18)	
	M 11:00am - 12:50pm W 11:00am - 12:50pm	EGR 3140 EGR 3140	 Lab
0201	Richard Toth	Seats (Total: 18)	
	M 4:00pm - 5:50pm W 4:00pm - 5:50pm	EGR 3140 EGR 3140	 Lab

COMM232 **News Editing for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in COMM231; or students who have taken courses with comparable content may contact the department. And permission of ARHU-Communication department. Restriction: Must be in Communication program. Credit only granted for: JOUR202, JOUR202P, JOUR232, or COMM232. Formerly: JOUR232.

Copy editing, graphic principles and processes, news and information technologies for public relations.

0101	Pamela Grant	Seats (Total: 18)	
	Tu 8:00am - 9:15am Th 8:00am - 9:15am	EGR 3140 EGR 3140	 Lab
0201	Pamela Grant	Seats (Total: 18)	
	Tu 9:30am - 10:45am Th 9:30am - 10:45am	EGR 3140 EGR 3140	 Lab

COMM250 **Introduction to Communication Inquiry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

0101	Susan Hubbard	Seats (Total: 25)	
	MW 11:00am - 11:50am F 9:00am - 9:50am	SKN 0200 BPS 1232	 Discussion
0102	Susan Hubbard	Seats (Total: 25)	
	MW 11:00am - 11:50am F 10:00am - 10:50am	SKN 0200 TYD 1114	 Discussion

0103	Susan Hubbard MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) SKN 0200 HBK 1108	Discussion
0104	Susan Hubbard MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 SKN 1112	Discussion
0105	Susan Hubbard MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 SQH 1105	Discussion
0106	Susan Hubbard MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) SKN 0200 TLF 1101	Discussion
0107	Susan Hubbard MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 KEY 0124	Discussion
0108	Susan Hubbard MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 PHY 0405	Discussion
0109	Susan Hubbard MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) SKN 0200 KEY 0121	Discussion

COMM269B **Special Topics in Study Abroad II; Oral Communication for Leaders in the Business World**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269C **Special Topics in Study Abroad II; Communication and Campaign Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269M **Special Topics in Study Abroad II; Media Technology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269P **Special Topics in Study Abroad II; Principles of Film and Media Production**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269R **Special Topics in Study Abroad II; Introduction to Public Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM288 **Communication Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

0101	Julie Gowin Contact instructor or department for details.	Seats (Total: 10)
0601	Leah Waks Contact instructor or department for details.	Seats (Total: 20)

COMM298P **Selected Topics in Communication; Introduction to Public Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topical study of contemporary issues in communication.

This course is restricted to COMM majors. An introduction to the role and function of public relations in society and in different types of organizations. The course will describe the range of public relations specialties and models of effective and ethical public relations.

0101	Erich Sommerfeldt MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 EDU 1107	Discussion
0102	Erich Sommerfeldt MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 EDU 1121	Discussion
0103	Erich Sommerfeldt MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 EDU 1107	Discussion
0104	Erich Sommerfeldt MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) SKN 0200 EDU 1121	Discussion
0105	Erich Sommerfeldt MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 20) SKN 0200 EDU 1107	Discussion
0106	Erich Sommerfeldt MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 20) SKN 0200 EDU 1121	Discussion

COMM298R **Selected Topics in Communication; Introduction to Public Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM324 **Communication and Gender**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

The creation of images of male and female, and masculine and feminine, through communication, the differences in male and female communication behaviors and styles, and the implications of those images and styles for male-female transactions.

0201	Lauren Bender MW 3:30pm - 4:45pm	Seats (Total: 35) CHM 0119
0301	Lauren Bender MW 5:00pm - 6:15pm	Seats (Total: 35) CHM 0119
0401	Melissa Lucas TuTh 8:00am - 9:15am	Seats (Total: 35) CSI 2120
0501	Melissa Lucas TuTh 9:30am - 10:45am	Seats (Total: 35) CSI 2120

COMM330 **Argumentation and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

0101	William Howell MW 2:00pm - 3:15pm	Seats (Total: 28) EGR 2154
0201	Christopher Swift TuTh 11:00am - 12:15pm	Seats (Total: 35) SQH 1117

COMM351 **Public Relations Techniques**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM232 and COMM350. Restriction: Must be in Communication program. Credit only granted for: COMM351 or JOUR331. Formerly: JOUR331.

The techniques of public relations, including news releases, publications and printed materials, audio-visual techniques, speeches and special events. Application of these techniques in laboratory and field projects.

0201	Julio Bermejo M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

0301	Stephanie Madden M 1:00pm - 2:15pm W 1:00pm - 2:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

COMM353 **New Media Writing for Public Relations**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in COMM351. Restriction: Must be in Communication program. Credit only granted for: COMM352 or COMM353. Formerly: COMM352.

Students learn the uses and influence of new media on public relations practice and expand their ability to write using new and traditional media platforms and tools

0101	Timothy Penn Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab
0201	Jiankun Guo Tu 12:00pm - 1:15pm Th 12:00pm - 1:15pm	Seats (Total: 18) EGR 3140 EGR 3140	 Lab

COMM354 **Public Relations Programs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM350. Credit only granted for: COMM354 or JOUR334. Formerly: JOUR334.

Analysis of eight major programs typically carried out by public relations professionals: employee relations, media relations, financial relations, member relations, governmental relations, community relations, fundraising and dealing with activist public.

0101	Susan Simon TuTh 3:30pm - 4:45pm	Seats (Total: 35) WDS 0104	

COMM360 **The Rhetoric of Black America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

0201	Jaclyn Bruner TuTh 5:00pm - 6:15pm	Seats (Total: 35) SKN 1115	

COMM370 **Mediated Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Junior standing or higher.

Analysis and critique of structure, performance, content, effects, and future of mediated communication.

0101	Soyoung Bae	Seats (Total: 45)
	MW 3:30pm - 4:45pm	TYD 1108

COMM371 **Communication and Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program. Credit only granted for: COMM371 or COMM398V. Formerly: COMM398V.

A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.

This course is restricted to COMM majors at Shady Grove.

SG91	Robert Coleman	Seats (Total: 25)
	MW 9:00am - 10:45am	Location: TBA
	Restricted to COMM majors at Shady Grove.	

COMM375 **Documentary Theory and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Communication program.

A historical and theoretical introduction to documentary films and videos. Students will explore the power of documentaries to address socially significant issues.

SG91	Adam Nixon	Seats (Total: 25)
	TuTh 2:30pm - 3:45pm	Location: TBA
	Restricted to COMM majors at Shady Grove.	

COMM382 **Essentials of Intercultural Communication**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DVCC

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

0101	Deepa Anagondahalli MW 3:30pm - 4:45pm	Seats (Total: 36) TYD 2106
0201	Nicholas Joyce TuTh 3:30pm - 4:45pm	Seats (Total: 35) TYD 2110
0401	Deepa Anagondahalli MW 5:00pm - 6:15pm	Seats (Total: 45) TYD 2106

COMM385 **Influence**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Credit only granted for: COMM385 or COMM498I (Spring 2014). Formerly: COMM498I (Spring 2014).

Explores contemporary theories of influence and their implications for communication practice. Topics include power and influence, logical theory, rhetorical theory, persuasion theory, framing theory, social influence theory, and propagation of influence in mediated social networks.

0101	Amanda Irions TuTh 3:30pm - 4:45pm	Seats (Total: 60) KEY 1117

COMM386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

0101	Julie Gowin Contact instructor or department for details.	Seats (Total: 60)

SG91	Lindsi Baltz	Seats (Total: 20)
	Contact instructor or department for details.	
	Contact department or instructor for details. Restricted to Shady Grove COMM Majors.	

COMM388 **Communication Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM398 **Selected Topics in Communication**

(Perm req)

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398C **Selected Topics in Communication; Peer Consulting in Oral Communication**

(Perm req)

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Prerequisite: permission of department. Provides training in the principles and practice of peer consulting in the context of an oral communication center. Students will apply and integrate the knowledge and skills acquired in COMM107 (or COMM200) with new training to help their peers become outstanding listeners and speakers. They will also engage in a group research project designed to extend knowledge in peer consulting best practices.

0101	Rowena Kirby-Straker	Seats (Total: 10)
	Tu 5:00pm - 7:30pm	SKN 2117
	Contact instructor or department for details.	

COMM398E **Selected Topics in Communication; Health Communication**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

0201	Xiaoli Nan	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	HBK 0103

COMM398F **Selected Topics in Communication; Web Graphics, Coding, and Site Design**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398K **Selected Topics in Communication; Communication and Strategic Message Design**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Robert Coleman MW 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 25) Location: TBA

COMM398N **Selected Topics in Communication; Communication and Digital Imaging**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

SG91	Robert Coleman MW 2:00pm - 3:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 25) Location: TBA

COMM398O **Selected Topics in Communication; Digital Media and Democracy**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

0101	Jon Hoffman TuTh 9:30am - 10:45am	Seats (Total: 75) TWS 1100
SG91	Jon Hoffman MW 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA

COMM398Z **Selected Topics in Communication; Media Ethics and Cultural Citizenship**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM399 **Honors Thesis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0601	Leah Waks Contact instructor or department for details.	Seats (Total: 10)	
4001	Xiaoli Nan Contact instructor or department for details.	Seats (Total: 10)	

COMM400 **Research Methods in Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250; and must have an introductory course in statistics. Restriction: Must be in Communication program.

Philosophy of scientific method; role of theory; research ethics; empirical research methods (measurement, sampling, design, analysis).

Attendance on the first day of class is mandatory. For majors only.

0101	Nicholas Joyce TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 WDS 1127	Discussion
0102	Nicholas Joyce TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 TYD 2102	Discussion
0103	Nicholas Joyce TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 PLS 1172	Discussion
0104	Nicholas Joyce TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 WDS 1131	Discussion
0105	Nicholas Joyce TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 ITV 1111	Discussion

0106	Nicholas Joyce TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 PLS 1168	Discussion
SG91	Soyoung Bae TuTh 12:30pm - 1:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA	

COMM401 **Interpreting Strategic Discourse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Principles and approaches for practical analysis of discourse designed to shape audience opinion.

Attendance on the first day of classes is mandatory.

0101	Christopher Swift TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 20) SHM 2102 WDS 1127	Discussion
0102	Christopher Swift TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) SHM 2102 EGR 1102	Discussion
0103	Christopher Swift TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) SHM 2102 PLS 1172	Discussion
0104	Christopher Swift TuTh 12:30pm - 1:20pm W 9:00am - 9:50am	Seats (Total: 20) SHM 2102 WDS 1131	Discussion
0105	Christopher Swift TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) SHM 2102 PLS 1164	Discussion
0106	Christopher Swift TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) SHM 2102 PLS 1176	Discussion

SG91	Jon Hoffman MW 12:30pm - 1:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA	

COMM402 **Communication Theory and Process**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Philosophical and conceptual analysis of communication theories.

Attendance on the first day of classes is mandatory.

0101	Amber Westcott-Baker MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) JMP 3201 KEY 0117	Discussion
0102	Amber Westcott-Baker MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) JMP 3201 PLS 1146	Discussion
0103	Amber Westcott-Baker MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) JMP 3201 PLS 1176	Discussion
0104	Amber Westcott-Baker MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) JMP 3201 ASY 3217	Discussion
0105	Amber Westcott-Baker MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) JMP 3201 PLS 1176	Discussion
0106	Amber Westcott-Baker MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) JMP 3201 PLS 1172	Discussion
SG91	Soyoung Bae TuTh 2:00pm - 3:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA	

COMM424 **Communication in Complex Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Structure and function of communication within organizations: organizational climate and culture, information flow, networks and role relationships.

0101	Lindsey Anderson MW 3:30pm - 4:45pm	Seats (Total: 35) SQH 1117
SG91	Judith Tenney TuTh 9:30am - 10:45am	Seats (Total: 40) BLD1 108

COMM425 **Negotiation and Conflict Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Role of communication in shaping negotiation and conflict processes and outcomes.

This course is restricted to COMM majors only.

0101	Lauren Edelstein TuTh 11:00am - 12:15pm	Seats (Total: 36) HBK 0302H

COMM426 **Conflict Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: COMM425; and COMM250; and COMM402.

Role of communication in managing conflict processes.

This course is restricted to COMM majors only.

0101	Lauren Edelstein TuTh 9:30am - 10:45am	Seats (Total: 36) HBK 0302H

COMM427 **Crisis Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: COMM398C or COMM427. Formerly: COMM398C.

Explores theories and research related to communication before, during, and after a crisis. Students examine the fundamentals of organizational communication, crisis management, and strategic and crisis communication planning before examining case studies of a number of real-life crises: organizational crises, natural disasters, accidents, terrorism incidents, health crises, and major crises of credibility.

SG91	Judith Tenney TuTh 11:00am - 12:15pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA

COMM435 Theories of Interpersonal Communication

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM400; or permission of ARHU-Communication department.

Major theoretical approaches and research trends in the study of interpersonal communication.

0101	Dale Hample TuTh 3:30pm - 4:45pm	Seats (Total: 35) SQH 1117
SG91	Judith Tenney TuTh 12:30pm - 1:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA

COMM450 Ancient and Medieval Rhetorical Theory

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program. Credit only granted for: COMM450 or COMM650.

A survey of rhetorical theory in the ancient and medieval periods. Emphasis is placed on the theoretical problems that gave rise to its development within both periods. Authors include Isocrates, Plato, Aristotle, Cicero, Quintilian, Hermogenes, Martianus Capella, Aurelius Augustine, Alberic of Monte Cassino, Geoffrey of Vinsauf and Robert of Basevorn.

0101	Jon Hoffman TuTh 11:00am - 12:15pm	Seats (Total: 35) PLS 1117

COMM460 Public Life in American Communities, 1634-1900

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Ways that Americans have used their voice to create public life. Focus is on the diverse social communities that have characterized American life and the place and characteristics of oral discourse in each.

0101	Michelle Yang TuTh 12:30pm - 1:45pm	Seats (Total: 35) HBK 0105

COMM468A **Seminar in Mediated Communication; Arab Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The examination of special topics related to the study of mediated communication.

0101	Sahar Khamis TuTh 12:30pm - 1:45pm	Seats (Total: 35) TYD 1132

COMM470 **Listening**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The principles of listening behavior.

This course is restricted to COMM majors only.

0101	Andrew Wolvin TuTh 11:00am - 12:15pm	Seats (Total: 28) SKN 0104

COMM472 **Nonverbal Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Nonverbal communication in human interaction theory and research on proxemics, kinesics and paralanguage as expression of relationship, affect and orientation within and across cultures.

SG91	Deepa Anagondahalli TuTh 3:30pm - 4:45pm *Restricted to COMM majors at Shady Grove.*	Seats (Total: 40) Location: TBA

COMM475 **Persuasion**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Bases of persuasion, with emphasis on recent experimental developments in persuasion.

This course is restricted to COMM majors only.

0201	Susan Hubbard MW 12:30pm - 1:45pm	Seats (Total: 36) TYD 1132

COMM478 **Communication Colloquium**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Current trends and issues in the field of communication, stressing recent research methods. Recommended for senior and graduate student majors and minors in communication.

0101	Nicholas Joyce F 12:00pm - 1:30pm	Seats (Total: 50) SKN 0200

COMM483 **Senior Seminar in Public Relations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM351 and COMM400. Credit only granted for: COMM483 or JOUR483. Formerly: JOUR483.

Integration of theory, techniques and research methods into the planning and execution of public relations campaigns for specific organizations. Analysis of research on the case studies of public relations.

0101	Susan Simon TuTh 9:30am - 10:45am	Seats (Total: 20) ASY 3221

COMM489 **Topical Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM498B **Seminar; Bateman Competition**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Susan Simon	Seats (Total: 20)
	Contact instructor or department for details.	

COMM498G **Seminar; Event Planning and Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Restricted to COMM majors only (major code: 1506A).

0201	Pamela Grant	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	JMP 1202

COMM498J **Seminar; Editing: Creating Meaning in Digital Media**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

SG91	Adam Nixon	Seats (Total: 25)
	W 4:15pm - 6:45pm	Location: TBA
	Restricted to COMM majors at Shady Grove.	

COMM498K **Seminar; Visual Communication: Filmmaking**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

SG91	Adam Nixon	Seats (Total: 25)
	Th 4:00pm - 6:30pm	Location: TBA
	Restricted to COMM majors at Shady Grove.	

COMM498L **Seminar; Introduction to Screenwriting for Television and Film**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

SG91	Adam Nixon	Seats (Total: 25)
	Tu 4:00pm - 6:30pm	Location: TBA
	Restricted to COMM majors at Shady Grove.	

COMM498M **Seminar; Strategic Message Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

0101	Soyoung Bae	Seats (Total: 45)
	MW 5:00pm - 6:15pm	TYD 1101

COMM498W **Seminar; Islamic Discourses in the Digital Age**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

The introduction of new media, such as the Internet, satellite television and cell phones, in the Arab/Muslim world imposed new realities and invited new dynamics, whether in the political, social, cultural or communication landscapes. This course tackles the complexities and implications of this new digital age, with all its multi-faceted dimensions. It pays special attention to the discourses and deliberations exchanged in cyberspace between Muslims and non-Muslims, on one hand, as well as between Muslims belonging to different sects, on the other hand. In doing so, it unpacks the myriad of complex factors which could be conducive, or constraining, to digital dialogue and their multiple religious, political, social and cultural implications.

0101	Sahar Khamis	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	KEY 0103

COMM498X **Seminar; Communication through Humor**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

SG91	Deepa Anagondahalli	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	Location: TBA
	Restricted to COMM majors at Shady Grove.	

COMM498Y **Seminar; Entertainment and Positive Media Effects**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Restricted to COMM majors only. Students will explore the processes and outcomes associated with entertainment and other media use. While much of the media-effects literature has focused on the negative outcomes of media use, many researchers have recently taken a more positive view, studying the many benefits and potential "serious" uses of entertaining media. Focus is placed on positive processes and effects such as learning, advocacy, social benefits, and improvements to health and well-being associated with media use across diverse channels including film and television, video games, and mobile/Internet communication.

0101	Amber Westcott-Baker MW 2:00pm - 3:15pm	Seats (Total: 35) SKN 0104

COMM602 **Communication Theory**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Communication (Master's); Communication (Doctoral)).

Fundamental concepts, approaches, and problems in communication theory.

0101	Dale Hample W 6:30pm - 9:30pm	Seats (Total: 15) SKN 2127

COMM609 **Fundamentals of Interpreting**

Credits: 1-6 Grading Method: Regular, Audit

Develops a systematic, reflective approach to interpreting tasks in real-world settings and outlines the use of different modes of interpreting under professional working conditions. Provides an overview of interpreting skills with exercises to develop them, including focus on active listening and analysis, effective use of memory, and delivery of the target message. Interpreting strategies and techniques in both dialogue and formal consecutive settings are discussed and practiced in a range of interpreting domains. Includes sight translation.

PG01	Luigi David Luccarelli	Seats (Total: 24)
	F 1:00pm - 3:00pm	SKN 3118
	Meets every other week beginning September 4th. Restricted to students in GSIT Program.	

COMM610 **Introduction to Translation and Interpreting Studies**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Students must complete an admissions test for first year courses; and permission of ARHU-Communication department.

Provides an overview of the interdisciplinary fields of Translation and Interpreting Studies and establishes relationships between scholarly study and professional practice. Examines how theories and concepts inform practice, guide to a higher level of competence, and address issues of interlingual, intercultural mediation in authentic, real-world settings both past and present. serves as a foundation course for reflective practice and portfolio work through action research methodology and process

PG01	David Sawyer	Seats (Total: 24)
	M 5:30pm - 8:30pm	SKN 3118
	Restricted to students in GSIT Program.	

COMM631 **Seminar in Public Relations Publics**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: COMM631 or JOUR631. Formerly: JOUR631.

Analysis of public relations programs aimed at organizational publics. Media, issue-related, community, employee, governmental, consumer, financial, and student/educator publics. Theories of the nature of publics, communication behavior of publics, and effects of public relations programs aimed at different publics.

0101	Erich Sommerfeldt	Seats (Total: 15)
	W 3:30pm - 6:30pm	SKN 3117

COMM639 **Fundamentals of Translation**

Credits: 1-6 Grading Method: Regular, Audit

Develops a systematic, reflective approach to translation involving both the written and spoken word. Provides an overview of domains of translation, associated text categories and translation tasks. Develops strategies to identify, analyze and resolve translation challenges in specific, authentic,real-world contexts. Working with a series of current texts, explores general translation concepts and language-specific strategies. Includes sight translation exercises and introduction to translation resources and computer tools used in the translators workplace.

PG01	Peng Wang	Seats (Total: 24)
	Tu 9:00am - 11:00am	SKN 3118
	Restricted to students in GSIT Program. Meets every other week beginning Sept. 1st.	

COMM641 Introduction to Computer-Assisted Translation

Credits: 1 Grading Method: Regular, Audit

Prerequisite: Admissions test for first year courses; and COMM639; and permission of ARHU-Communication department.

Introduces the use of computer-assisted translation tools to support large-scale translation projects and streamline translation processes. Focuses on industry software products that utilize translation memory and terminology management systems. Discusses the role of tools in the entire translation process from pre- to post-editing.

PG01	Peng Wang	Seats (Total: 12)
	F 9:00am - 11:00am	SKN 3115
	Every other week beginning Oct. 9th. Restricted to students in GSIT Program.	

COMM659 Translation for Language-Specific Markets

Credits: 1-3 Grading Method: Regular, Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	

COMM669 Professional Practice Forum in Translation: Practicum

Credits: 1-3

Grading Method: Regular, Audit

Provides opportunities to complete real-world translation projects on campus and in the public service, legal, business, and political communities as translators, project managers and translators/reviewers working on group projects. Collaboration with participants in the interpreting practicum is also sought to prepare multilingual texts for practicum events and familiarize participants with conference translation. Complements Translation for Specific Markets, and practicum projects are included in course and career reflective practice portfolios. Requires independent study plan agreed with course instructor.

PG01	Monika Roske	Seats (Total: 16)
	F 11:30am - 1:00pm	SKN 3117
	Meeting Sep. 4, Oct. 2, Dec. 11. Restricted to students in GSIT program.	

COMM679 **Professional Practice Forum in Translation: Workplace Processes and Procedures**

Credits: 1

Grading Method: Regular, Audit

Provides in-depth exploration of processes and procedures in public service, legal, and political settings requiring translation services. Prepares for translation in real-world settings by discussing procedures across sectors and institutions, enabling informed career plans and choices. Discusses ethics, professional conduct and business practices. Reinforces identity as a professional translator, develops specializations, and pursues professional and career development opportunities through interaction with members of the profession, professional organizations, and institutions in the language industry.

PG01	Stephen Lank	Seats (Total: 16)
	Th 8:30am - 10:30am	SKN 3117
	Every other week beginning Sep. 10. Restricted to students in GSIT program.	

COMM686 **Teaching Communication**

Credits: 1

Grading Method: Regular, Audit

Formerly: SPCH686.

Principles of effective teaching--content and process--in the college communication classroom.

0101	Andrew Wolvin	Seats (Total: 30)
	W 12:00pm - 1:00pm	SKN 2127

COMM688 **Communication Field Experience**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Applications of communication principles and research in professional communication settings.

Contact department for information to register for this course.

COMM698 **Special Problems in Communication**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Contact department for information to register for this course.

COMM700 **Introduction to Graduate Study in Communication**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Communication (Doctoral) program. Formerly: SPCH700.

Basic skills in communication research.

0101	Kristjana Maddux	Seats (Total: 30)
	Tu 6:30pm - 9:30pm	SKN 2127

COMM711 **Historical/Critical Methods in Communication Research**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: COMM700; or permission of instructor. Formerly: SPCH711.

Methods for historical and critical research in communication. Formulation of significant research questions, systematic collection of bibliographic and phenomenal information, formulating substantial claims, organizing and writing research for disciplinary outlets.

0101	Michelle Yang	Seats (Total: 15)
	Tu 3:30pm - 6:30pm	SKN 2127

COMM713 **Translation Technology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Admissions test for second year courses; and permission of ARHU-Communication department.

Builds upon the principles outlined in Introduction to Computer-Assisted Translation to develop comprehensive knowledge of the current and future roles of technology in translation processes involving both the spoken and the written word, including use of widely available software tools and systems for terminology management, translation memory, and machine translation. Students carry out projects using translation technology, enabling them to apply newly acquired knowledge in applied contexts. Examination of case studies highlights how translation technology is leveraged across public and private sector organizations and the latest developments in the field.

PG01	Peng Wang, Stephen Lank	Seats (Total: 16)
	Tu 1:00pm - 4:00pm	SKN 3118
	Restricted to students in GSIT program.	

COMM719 Advanced Consecutive Interpretation

Credits: 2-6 Grading Method: Regular, Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program.	

COMM724 Seminar in Organizational Communication

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor. Formerly: SPCH724.

Theories and problems of human communication within, between, and/or among formal organizations will be emphasized.

0101	Lindsey Anderson	Seats (Total: 15)
	M 6:30pm - 9:30pm	SKN 2127

COMM729 Simultaneous Interpretation

Credits: 1-3 Grading Method: Regular, Audit

Builds upon the discussion of the simultaneous mode and exercises in Introduction to Simultaneous Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth in a series of progressive exercises. Addresses challenges such as coordination of split attention, ear-voice span, memory and delivery / presentation. Reinforces principles of collegial teamwork and good microphone technique in the booth. Enhances preparation skills required for interpretation of specialized subject matter.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	
	Restricted to students in GSIT Program.	

COMM748 **The Rhetoric of the Presidency**

Credits: 3 Grading Method: Regular, Audit

The study of the historical and contemporary rhetoric of the presidency in appropriate historical and political contexts. Scholarship related to public address studies and theories of the presidency will be featured.

0101	Shawn Parry-Giles	Seats (Total: 15)
	Th 3:30pm - 6:30pm	SKN 2127

COMM759 **Professional Practice Forum in Interpreting: Practicum**

Credits: 1-3 Grading Method: Regular, Audit

Provides opportunities to interpret consecutively and simultaneously in real-world settings on campus and in the public service, legal, business, and political communities. Develops team leader skills by organizing and convening an event or series of events (conference, debate, or negotiation), selecting topics and delegates, and preparing speeches and arguments to deliver and interpret. Collaboration with participants in M.A. translation courses is sought. Requires independent study plan agreed with course instructor.

PG01	Thomas Afton	Seats (Total: 16)
	F 11:30am - 1:00pm	SKN 3117
	Meets Sept. 18th, Oct. 30th, Dec. 4th. Restricted to students in GSIT Program.	

COMM769 **Professional Practice Forum in Interpreting: Workplace Processes and Procedures**

Credits: 1-2 Grading Method: Regular, Audit

Provides in-depth exploration of processes and procedures in public service, legal, and political settings where interpreting services are commonplace. Enables students to make informed career plans and choices. Empowers participants by helping to establish and reinforce identity as a professional interpreter, develop specializations, and pursue professional and career development opportunities through interaction with members of the profession, professional organizations, and institutions in the language industry.

PG01	Elisabetta Ullmann	Seats (Total: 16)
	Th 10:00am - 12:00pm	SKN 3117
	Every other week beginning Sept. 3rd. Restricted to students in GSIT Program.	

COMM789 **Seminar: Special Topics in Intercultural Communication; Advanced Intercultural Communications/Negotiations**

Credits: 3 Grading Method: Regular, Audit

Explores special topic areas within the study of intercultural communication, such as culture and conflict, intercultural negotiation, cross-cultural relationships.

PG01	Monika Roske	Seats (Total: 16)
	Th 12:30pm - 3:30pm	SKN 3117
	Restricted to students in GSIT Program.	

COMM798 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798A **Independent Study; Public Speaking**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Andrew Wolvin	Seats (Total: 12)
	Th 1:00pm - 3:00pm	SKN 2117
	Restricted to students in GSIT Program.	

COMM798B **Independent Study; Text Analysis and Intensive Writing**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Shawn Parry-Giles Tu 1:00pm - 2:00pm *Restricted to students in GSIT program. Taught in English.*	Seats (Total: 16) SKN 3117
PG02	Guiling Hu M 4:00pm - 5:00pm *Restricted to students in GSIT Program. Taught in Chinese.*	Seats (Total: 16) SKN 3117
PG03	Dina El-Hefnawy M 4:30pm - 5:30pm *Restricted to students in GSIT Program. Taught in Arabic.*	Seats (Total: 16) Location: TBA
PG04	Elena Lozinsky Th 4:30pm - 5:30pm *Restricted to students in GSIT Program. Taught in Russian.*	Seats (Total: 16) SKN 3117
PG05	Caroline Eades W 5:00pm - 7:00pm *Restricted to students in GSIT Program. Taught in French. Every other week beginning Sep. 2.*	Seats (Total: 16) Location: TBA

COMM798C **Independent Study; Advanced English Interpreting**

Credits: 1-3 Grading Method: Regular, Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Thomas Afton Contact instructor or department for details. *Oct. 22: 2:30pm-5:30pm (TBD), Oct. 23: 2:00pm-5:00pm (SKN 3117), Oct. 26: 10:00am-11:30am (SKN 2127). Restricted to students in GSIT program.*	Seats (Total: 16)

COMM799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

COMM888 **Doctoral Practicum in Communication**

(Perm req)

Credits: 3-9

Grading Method: Regular, Audit

Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

COMM889 **Doctoral Tutorial in Communication**

(Perm req)

Credits: 3-9

Grading Method: Regular, Audit

Individual research in communication.

Contact department for information to register for this course.

COMM898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

CONS Sustainable Development & Conservation Biology Fall 2015

CONS608G **Seminar in Sustainable Development and Conservation Biology; Scientific Writing and Presentations**

Credits: 1

Grading Method: Regular, Audit

Special topics and current literature in conservation biology and sustainable development.

Also offered as BIOL608R and MEES608G. Credit granted for BIOL608R, CONS608G, or MEES608G.

0101	Keryn Gedan	Seats (Total: 12)
	Contact instructor or department for details.	

CONS609I **Special Topics in Conservation Biology; Internship**

Credits: 1-3 Grading Method: Sat-Fail

Lectures, experimental courses and other special instructions in variou subjects in conservation biology.

0101	Karen Lips	Seats (Total: 20)
	Contact instructor or department for details.	

CONS798 **Research Papers in Sustainable Development and Conservation Biology**

Credits: 1-4 Grading Method: Regular, Sat-Fail

Work on the required scholarly paper.

Contact department for information to register for this course.

CPBE College Park Scholars-Business, Society, and Economy Fall 2015

CPBE100 **College Park Scholars: Business, Society & the Economy First-Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.

Introductory colloquium: Examination of issues related to business, society and the economy.

0101	Mark Wellman	Seats (Total: 43)	
	W 5:00pm - 5:50pm	TWS 1100	
	W 6:00pm - 6:50pm	TWS 1100	Lab
0201	Mark Wellman	Seats (Total: 43)	
	W 5:00pm - 5:50pm	TWS 1100	
	W 6:00pm - 6:50pm	TWS 1100	Lab

CPBE225 **Enterprise Communications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Prerequisite: CPBE100. Restriction: Must be enrolled in College Park Scholars' Business, Society and the Economy (CPBE) program. Formerly: CPSP220.

Examines basic interpersonal communication processes within written and oral channels, with practical applications for the business environment.

BL01	Mark Wellman M 11:00am - 12:15pm M 7:00pm - 10:00pm	Seats (Total: 36) CCC 1100 CCC 1205	 Lab
BL02	Mark Wellman M 2:00pm - 3:15pm M 7:00pm - 10:00pm	Seats (Total: 36) CCC 1100 CCC 1205	 Lab

CPET College Park Scholars-Environment, Technology & Economy Fall 2015

CPET100 **College Park Scholars: Environment, Technology & Economy First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.

Introductory colloquium: Examination of issues related to the convergence of the environment, technology and the economy.

Class will meet in lecture OR discussion each week. For the first class meeting, all sections meet in LECTURE. Students will then be given schedule for semester.

0101	Becky Archer Tu 5:00pm - 6:15pm M 3:00pm - 3:50pm	Seats (Total: 22) CCC 1205 CCC 1105	 Discussion
0102	Becky Archer Tu 5:00pm - 6:15pm M 4:00pm - 4:50pm	Seats (Total: 22) CCC 1205 CCC 1105	 Discussion
0103	Becky Archer Tu 5:00pm - 6:15pm Contact instructor or department for details. *Discussion meets on Tuesdays from 5pm-550pm in CCC 1205.*	Seats (Total: 22) CCC 1205	
0104	Becky Archer Tu 5:00pm - 6:15pm Contact instructor or department for details. *Discussion meets on Tuesdays from 6pm-650pm in CCC 1205.*	Seats (Total: 22) CCC 1205	

CPET200 **College Park Scholars: Environment, Technology & Economy Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPET101. Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.

Advanced colloquium: Continued examination of issues related to sustainable development.

Class will meet in lecture OR discussion. All sections meet in LECTURE first week. Students will be given schedule for the semester.

0101	Becky Archer M 5:00pm - 6:15pm Contact instructor or department for details. *Discussion meets on Mondays from 5pm-550pm in CCC 1205.*	Seats (Total: 25) CCC 1205	
0102	Becky Archer M 5:00pm - 6:15pm Contact instructor or department for details. *Discussion meets on Mondays from 6pm-650pm in CCC 1205.*	Seats (Total: 25) CCC 1205	
0103	Becky Archer M 5:00pm - 6:15pm Tu 4:00pm - 4:50pm	Seats (Total: 25) CCC 1205 CCC 1115	 Discussion
0104	Becky Archer M 5:00pm - 6:15pm Contact instructor or department for details.	Seats (Total: 5) CCC 1205	

CPGH College Park Scholars-Global Public Health Fall 2015

CPGH100 **College Park Scholars: Global Public Health First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Introductory colloquium: Examination of factors that determine the health status of populations around the world.

0101	Paul Bueno de Mesquita, Abigail Bickford, Muhiuddin Haider W 3:00pm - 4:30pm	Seats (Total: 85) CCC 1100	

CPGH200 **College Park Scholars: Global Public Health Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPGH101. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Building on knowledge and skills gained from the first-year colloquia, students will develop public health interventions that address a public health issue of a particular community.

0101	Paul Bueno de Mesquita, Abigail Bickford, Muhiuddin Haider	Seats (Total: 75)
	Tu 3:30pm - 5:00pm	CCC 1205

CPJT College Park Scholars-Justice and Legal Thought Fall 2015

CPJT100 **College Park Scholars: Justice & Legal Thought: First-Year Colloquium**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Justice & Legal Thought (CPJT) program.

Students will gain an experiential understanding of law and justice by investigating concepts and frameworks of justice and apply them to real-world experience.

0101	Robert Koulish	Seats (Total: 80)
	W 5:00pm - 6:15pm	CCC 1205

CPMS College Park Scholars-Media, Self and Society Fall 2015

CPMS100 **College Park Scholars: Media, Self & Society First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Introductory colloquium: Examination of issues related to the media.

0101	Kalyani Chadha, James Baxter, Joanna Margueritte Nurmis	Seats (Total: 90)
	Th 3:30pm - 4:50pm	CCC 1100

CPMS225 **Analyzing Media Practice through Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CPMS100. Restriction: Must be in the Scholars Media, Self & Society Program. Formerly: CPSP222.

Media analysis investigating patterns of ownership, the working of media organizations, patterns of coverage and the nature of audiences.

0101	Kalyani Chadha, James Baxter, Joanna Margueritte Nurmis	Seats (Total: 90)
	TuTh 12:30pm - 1:45pm	CCC 1205

CPMS230 **College Park Scholars: Media, Self & Society - Internship Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Supervised internship project in an area related to media, self and society.

0101	Kalyani Chadha	Seats (Total: 10)
	Contact instructor or department for details.	

CPPL College Park Scholars-Public Leadership Fall 2015

CPPL100 **College Park Scholars: Public Leadership First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Introductory colloquium: Examination of issues related to public leadership.

0101	Ricco Hall	Seats (Total: 30)
	Tu 5:00pm - 6:15pm	CCC 1111
0201	Ricco Hall	Seats (Total: 35)
	Tu 6:30pm - 7:45pm	CCC 1111
0301	Ricco Hall	Seats (Total: 35)
	W 5:00pm - 6:15pm	CCC 1111

CPPL200 **College Park Scholars: Public Leadership - Applied Leadership Capstone I**

Credits: 1 Grading Method: Regular

Prerequisite: CPPL101. Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Planning and initiation of team, community-based-learning projects.

0101	Jennifer Littlefield, Sarah Gordon Tu 3:30pm - 4:45pm	Seats (Total: 30) CCC 1111
0201	Jennifer Littlefield, Sarah Gordon W 2:00pm - 3:15pm	Seats (Total: 30) CCC 1111
0301	Sarah Gordon, Jennifer Littlefield W 3:30pm - 4:45pm	Seats (Total: 35) CCC 1205

CPSA College Park Scholars-Arts Fall 2015

CPSA100 **College Park Scholars: Arts First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program.

Introductory colloquium: Aesthetic, intellectual and personal examination of the arts.

0101	Eowyn Mays, Jessica Krenek M 6:00pm - 7:15pm	Seats (Total: 90) CCC 1100

CPSA149 **College Park Scholars: Arts Service-Learning Outreach**

Credits: 2 Grading Method: Regular

Service-Learning outreach to Prince George's County schools and non-profit agencies.

0101	Harold Burgess Th 5:00pm - 7:00pm	Seats (Total: 10) CCC 1115

CPSA200 **College Park Scholars: Arts Second-Year Colloquium I**

Credits: 1 Grading Method: Regular

Prerequisite: CPSA101. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 240, 250 or 260, students will earn General Education Scholarship-in-Practice credit.

Advanced colloquium I: Examination of the arts in society; and preparation for "Scholarship-in-Practice" project.

0101	Harold Burgess, Eowyn Mays, Jessica Krenek	Seats (Total: 80)
	Tu 6:00pm - 7:15pm	CCC 1100

CPSA240 **College Park Scholars: Arts Service-Learning Practicum**

Credits: 2 Grading Method: Regular

Prerequisite: CPSA200. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 200, students will earn General Education Scholarship-in-Practice credit.

Supervised Service-Learning project in an area related to the arts.

0101	Harold Burgess	Seats (Total: 10)
	Th 5:00pm - 7:00pm	CCC 1115

CPSD College Park Scholars-Science, Discovery & the Universe Fall 2015

CPSD100 **College Park Scholars: Science, Discovery & the Universe First-Year Colloquium A**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of issues related to science, discovery and the universe.

0101	Alan Peel, Benjamin Miller	Seats (Total: 45)
	Th 4:00pm - 5:20pm	CCC 1111

CPSD101 **College Park Scholars: Science, Discovery & the Universe First-Year Colloquium B**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of the intersection of astronomy and culture; and the roles of science, exploration and communication in the process of discovery.

0101	Alan Peel, Benjamin Miller	Seats (Total: 45)
	Th 4:00pm - 5:20pm	CCC 1205

CPSD200 **College Park Scholars: Science, Discovery & the Universe Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPSD100 and CPSD101. Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program.

Advanced colloquium: Continued examination of issues related to science, discovery and the universe.

0101	Alan Peel, Benjamin Miller	Seats (Total: 85)
	W 4:30pm - 5:30pm	CCC 1100

CPSF College Park Scholars-Life Sciences — Fall 2015

CPSF100 **College Park Scholars: Life Sciences First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Life Sciences (CPSF) program.

Introductory colloquium: Examination of issues related to the life sciences.

0101	Reid Compton	Seats (Total: 100)
	W 3:30pm - 5:30pm	PLS 1140

CPSG College Park Scholars-Science and Global Change — Fall 2015

CPSG100 **College Park Scholars: Science & Global Change First-Year Colloquium I**

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Introductory colloquium: Examination of issues related to science and global change.

0101	Thomas Holtz	Seats (Total: 92)
	Tu 3:30pm - 4:50pm	CCC 1100

CPSG200 **College Park Scholars: Science & Global Change Second-Year Colloquium**

Credits: 1 Grading Method: Regular

Prerequisite: CPSG101. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Advanced colloquium: Continued examination of issues related to science and global change.

0101	Thomas Holtz	Seats (Total: 90)
	M 3:30pm - 4:50pm	CCC 1100

CPSG230 **College Park Scholars: Science & Global Change - Internship Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPSG200. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Supervised internship in an interest area related to science and global change.

Contact department for information to register for this course.

CPSG250 **College Park Scholars: Science & Global Change - Research Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPSG200. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Supervised research experience in an interest area related to science and global change.

Contact department for information to register for this course.

CPSN College Park Scholars-International Studies Fall 2015

CPSN100 **College Park Scholars: International Studies First-Year Colloquium I**

Credits: 2 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Introductory colloquium: Examination of issues related to international studies.

0101	James Glass	Seats (Total: 21)	
	M 4:45pm - 6:45pm	ASY 2203	
	M 6:45pm - 8:00pm	ASY 3211	Discussion
0102	James Glass	Seats (Total: 21)	
	M 4:45pm - 6:45pm	ASY 2203	
	M 6:45pm - 8:00pm	ASY 3217	Discussion
0103	James Glass	Seats (Total: 21)	
	M 4:45pm - 6:45pm	ASY 2203	
	M 6:45pm - 8:00pm	ASY 3219	Discussion
0104	James Glass	Seats (Total: 19)	
	M 4:45pm - 6:45pm	ASY 2203	
	M 6:45pm - 8:00pm	ASY 3203	Discussion

CPSN230 **College Park Scholars: International Studies - Internship Practicum**

Credits: 3 Grading Method: Regular

Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Supervised internship project in an area related to international studies.

0101	Allison Patch	Seats (Total: 10)
	Contact instructor or department for details.	

CPSP College Park Scholars Program Fall 2015

CPSP218L **College Park Scholars Second-Year Colloquium I; Life Sciences**

(Perm req)

Credits: 1 Grading Method: Regular

Colloquium for specific College Park Scholars Program.

Restricted to College Park Scholars - Life Sciences. First lecture of the semester for all sections (including those listed as TBA) will meet on Tuesday, September 2nd, from 4pm-5pm. Location TBA.

0101	Patricia Shields	Seats (Total: 25)
	Tu 4:00pm - 6:00pm	PLS 1168

0201	Marcia Shofner, Tammatha O'Brien Th 4:00pm - 6:00pm	Seats (Total: 25) PLS 1146
0301	Reid Compton Tu 4:00pm - 6:00pm	Seats (Total: 25) PLS 1146
0401	Reid Compton Th 4:00pm - 6:00pm	Seats (Total: 25) PLS 1119

CPSP239A **Practicum: Internship**

Credits: 1 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Harold Burgess Contact instructor or department for details.	Seats (Total: 10)

CPSP239L **Practicum: Internship**

Credits: 1 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

Contact department for information to register for this course.

CPSP239P **Practicum: Internship; Individual Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

0101	Jennifer Littlefield Contact instructor or department for details.	Seats (Total: 5)

CPSP249L **Practicum: Service-Learning; Life Sciences**

Credits: 2 Grading Method: Regular

Supervised Service-Learning project in area related to the theme of the students' College Park Scholars program.

Restricted to College Park Scholars - Life Sciences.

0101	Reid Compton	Seats (Total: 20)
	Contact instructor or department for details.	

CPSP259J **Practicum: Research; Media, Self, and Society**

Credits: 1-2 Grading Method: Regular

Supervised research project in interest area related to the students' College Park Scholars program.

Restricted to students in College Park Scholars Media, Self, and Society Program

Contact department for information to register for this course.

CPSP269N **Practicum: Peer Teaching**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP318B **College Park Scholars Special Topics; Business, Society and Economics**

(Perm req)

Credits: 1 Grading Method: Regular

Special Topics learning opportunities in College Park Scholars.

Contact department for information to register for this course.

CPSP318N **College Park Scholars Special Topics**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special Topics learning opportunities in College Park Scholars.

Contact department for information to register for this course.

CPSP339 **Advanced Practicum: Internship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

Contact department for information to register for this course.

CPSP349T **Advanced Practicum: Service Learning; STS INFRASTRUCTURE AND SOCIETY S-L PROJECT**

Credits: 3 Grading Method: Regular General Education: DSSP

Advanced supervised Service-Learning project.

0101	David Tomblin, Matthew Aruch Th 3:30pm - 5:00pm Contact instructor or department for details.	Seats (Total: 20) CCC 1105

CPSP369A **Advanced Practicum: Peer Teaching; Arts**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369D **Advanced Practicum: Peer Teaching; Science, Discovery, and the Universe**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369E **Advanced Practicum: Peer Teaching**

Credits: 3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369G **Advanced Practicum: Peer Teaching**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369L **Advanced Practicum: Peer Teaching; Life Sciences**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369N **Advanced Practicum: Peer Teaching; International Studies**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369P **Advanced Practicum: Peer Teaching; Public Leadership**

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369T **Advanced Practicum: Peer Teaching; Science, Technology, and Society**

(Perm req)

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Students must be available to T.A. for CPSP118T, which meets on Mondays from 3:30-4:50 p.m. For permission to register, consult with Dr. Mendelsohn.

Contact department for information to register for this course.

CPSP388B **Advanced Special Topics in College Park Scholars; ON**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

CPSP388E **Advanced Special Topics in College Park Scholars; Advanced Special Topics in College Park Scholars**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

CPSS College Park Scholars-Science, Technology and Society Fall 2015

CPSS100 **College Park Scholars: Science, Technology & Society First-Year Colloquium I**

Credits: 2 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Technology & Society (CPSS) program.

Introductory colloquium: Examination of issues related to science, technology and society.

0101	David Tomblin M 3:15pm - 5:00pm	Seats (Total: 90) CCC 1205

CPSS225 College Park Scholars Capstone: Science, Technology, and Society

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Prerequisite: CPSS100. Restriction: Must be in the College Park Scholars Science, Technology & Society (CPSS) program. Formerly: CPSP227.

Exploration and understanding of ways science and technology shape and are shaped by society.

0101	Thomas Zeller TuTh 9:30am - 10:45am	Seats (Total: 20) CCC 1105
0201	Nicole Mogul TuTh 12:30pm - 1:45pm	Seats (Total: 25) CCC 1105

CPSS230 College Park Scholars: Science, Technology & Society - Internship Practicum

Credits: 1 Grading Method: Regular

Prerequisite: CPSS101. Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program.

Supervised internship in an area related to science, technology and society.

0101	David Tomblin W 3:40pm - 5:00pm	Seats (Total: 15) CCC 1115
0201	Matthew Aruch W 3:30pm - 5:00pm	Seats (Total: 35) CCC 1111

CPSS240 College Park Scholars: Science, Technology & Society - Service-Learning Practicum

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Prerequisite: CPSS101; or permission of instructor. Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program; or permission of instructor.

Supervised Service-Learning practicum in issues related to science, technology and society.

Most of the class times will be spent at area Prince George's schools with partnering robotics teams. Consult the class requirements and locations provided in the syllabus at the beginning of the class.

0101	Matthew Aruch Tu 3:30pm - 4:45pm Th 2:00pm - 3:15pm	Seats (Total: 10) CCC 1200 Location: TBA	 Lab
0102	Matthew Aruch Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 25) CCC 1200 Location: TBA	 Lab

DANC Dance Fall 2015

DANC109 **Improvisation I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

An introduction to the process of spontaneous movement discovery involving solo and group movement experiences.

Prerequisite: by permission of department. Students must pay a $25.00 lab fee.

0101	Colette Krogol TuTh 11:00am - 12:15pm	Seats (Total: 15) PAC 1610	 Lab

DANC138P **World Dance Forms; Hip Hop**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25.00 lab fee.

0101	Christopher Law TuTh 2:00pm - 3:15pm	Seats (Total: 25) PAC 1610	 Lab
0102	Christopher Law TuTh 3:30pm - 4:45pm	Seats (Total: 25) PAC 1610	 Lab

DANC138W **World Dance Forms; World Dance Forms: West African Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit , D

Movement course. Traditional dances and music of selected cultures.

Students must pay a $25.00 lab fee.

0101	Sinclair Emoghene TuTh 2:00pm - 3:15pm	Seats (Total: 24) PAC 1912	Lab
0102	Sinclair Emoghene TuTh 3:30pm - 4:45pm	Seats (Total: 25) PAC 1912	Lab

DANC148 **Fundamentals of Modern Dance**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Introduction to modern dance with emphasis on the development of fundamental movement skills.

Students must pay a $25.00 lab fee.

0101	Julia Smith TuTh 9:30am - 10:45am	Seats (Total: 30) PAC 1610	Lab
0102	Meghan Bowden MW 2:00pm - 3:15pm	Seats (Total: 30) PAC 1908	Lab
0103	Julia Smith TuTh 12:30pm - 1:45pm	Seats (Total: 30) PAC 1610	Lab

DANC149 **Fundamentals of Modern Dance II**

Credits: 2 Grading Method: Regular

Continuation of the development of axial and locomotor movement skills with emphasis on the development of functional alignment, musicality, range of movement, coordination, and movement memory.

Students must pay a $25.00 lab fee.

0102	Curtis Stedge MW 2:00pm - 3:15pm	Seats (Total: 25) PAC 1610	

DANC179 **Movement Integration**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Conditioning and re-patterning techniques for achieving integrated movement.

Students must pay a $25.00 lab fee.

0101	Katie Sopoci Drake TuTh 2:00pm - 3:15pm	Seats (Total: 20) PAC 1611	Lab

DANC199 **Practicum in Choreography, Production and Performance I**

(Perm req)

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Choreography, production, and performance of student works, both on and off campus.

Contact department for information to register for this course.

DANC200 **Introduction to Dance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

0101	Meghan Bowden TuTh 11:00am - 12:15pm	Seats (Total: 25) HBK 0108
0201	Sarah Oppenheim TuTh 12:30pm - 1:45pm	Seats (Total: 10) HBK 0108
0301	Matthew Reeves TuTh 3:30pm - 4:45pm	Seats (Total: 25) HBK 0108
FC01	Lisa Traiger MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) HBK 0108

DANC200S **Introduction to Dance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

Restricted to College Park Scholars - Arts.

0201	Sarah Oppenheim TuTh 12:30pm - 1:45pm	Seats (Total: 15) HBK 0108	

DANC207 **The Creative Process**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: DANC109. Restriction: Permission of ARHU-Dance department.

Explorations in movement, music, words, objects, and environments through improvisation and choreographic problem solving.

Students must pay a $25.00 lab fee.

0101	Patrik Widrig MWF 2:00pm - 3:20pm	Seats (Total: 15) PAC 1912	

DANC209 **Dance Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploration of the structural elements of dance composition.

Prerequisite: DANC207 and permission of department. Students must pay a $25.00 lab fee.

0101	Alvin Mayes MWF 12:30pm - 1:50pm	Seats (Total: 15) PAC 1912	Lab

DANC218 **Foundations of Technique I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of heightened body awareness, breath support, dynamic alignment, and spatial awareness. Focus on rhythmic clarity and musicality.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Adriane Fang MWF 9:30am - 10:50am	Seats (Total: 17) PAC 1912	Lab

DANC219 **Foundations of Technique II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC218 with an added focus o momentum, the use of counter-tension, stability/mobility, suspension, and dynamic range.

Prerequisite: DANC218 and permission of department. Students must pay a $25.00 lab fee.

0101	Adriane Fang MWF 9:30am - 10:50am	Seats (Total: 8) PAC 1912	Lab
0201	Alvin Mayes MWF 11:00am - 12:20pm	Seats (Total: 17) PAC 1912	Lab

DANC228 **Ballet I**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Barre and center work for alignment, strength, flexibility and coordination. Introduction to ballet terminology.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Sarah Oppenheim TuTh 9:30am - 10:45am	Seats (Total: 27) PAC 1908	Lab

DANC229 **Ballet II**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC228.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Mané Rebelo-Plaut TuTh 12:30pm - 1:45pm	Seats (Total: 25) PAC 1908	Lab

DANC299 **Practicum in Choreography, Production and Performance II**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC199.

Contact department for information to register for this course.

DANC304 **Teaching Dance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Dance department.

Organization and content of the studio dance class. Structuring developmentally appropriate dance experiences for students ages 3-18.

Students must pay a $25.00 lab fee.

0101	Karen Bradley MW 2:00pm - 3:15pm	Seats (Total: 20) PAC 1611	

DANC318 **Foundations of Technique III**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC219 with an added focus on off-verticality, spirals, complex level changes, more complex and extended phrasing, responsiveness to accompaniment, vocalization.

Prerequisite: DANC219 and permission of department. Students must pay a $25.00 lab fee.

0101	Alvin Mayes MWF 11:00am - 12:20pm	Seats (Total: 8) PAC 1912	Lab
0201	Patrik Widrig MWF 11:00am - 12:20pm	Seats (Total: 11) PAC 1610	Lab

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DANC319 **Foundations of Technique IV**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of the elements addressed in DANC318 with an added focus on movement subtlety and complexity, and stylistic demands.

Prerequisite: DANC318 and permission of department. Students must pay a $25.00 lab fee.

0101	Patrik Widrig	Seats (Total: 14)	
	MWF 11:00am - 12:20pm	PAC 1610	

DANC328 **Ballet III**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Execution of the vocabulary of ballet movement with technical accuracy.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Mané Rebelo-Plaut	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	PAC 1908	Lab

DANC329 **Ballet IV**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC328.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Mané Rebelo-Plaut	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	PAC 1908	Lab

DANC371 **Somatics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: DANC179. Restriction: Permission of ARHU-Dance department.

Current ideas and trends in dance technique, with a focus on the incorporation of dance science and somatics into dance training.

Students must pay a $25.00 lab fee.

0101	Katie Sopoci Drake	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	PAC 1912	

DANC386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Contact department for information to register for this course.

DANC398 **Directed Studies in Dance**

(Perm req)

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

DANC399 **Practicum in Choreography, Production and Performance III**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC299.

Prerequisite: DANC 299.

Contact department for information to register for this course.

DANC409 **Contact Improvisation**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Discovery and cultivation of the principles and skills of Contact Improvisation dance technique.

Students must pay a $25.00 lab fee.

0101	Matthew Reeves, Colette Krogol	Seats (Total: 15)	
	TuTh 12:30pm - 1:45pm	PAC 1912	Lab

DANC448 **Modern Dance V**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Complex phrases of modern dance movement with emphasis on articulation and expression.

Prerequisite: DANC349 and aududition. Students must pay a $25.00 lab fee.

0101	Christopher Morgan	Seats (Total: 10)	
	MWF 9:30am - 10:50am	PAC 1610	Lab

DANC449 **Modern Dance VI**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of DANC448.

Prerequisite: DANC 448 and permission from the department Students must pay a $25.00 lab fee.

0101	Christopher Morgan MWF 9:30am - 10:50am	Seats (Total: 5) PAC 1610	 Lab

DANC488 **Project-Based Learning**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

A specific project, is addressed, in dance from the perspectives of the investigator, the creator/choreographer, and the performer. Projects are cross-disciplinary and/or cross-cultural, and may involve both on- and off-campus experiences.

Students must pay a $25.00 lab fee.

0101	Miriam Phillips TuTh 2:00pm - 5:00pm	Seats (Total: 15) PAC 1908

DANC499 **Practicum in Choreography, Production and Performance IV**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Advanced workshop in dance presentation, including performing, production and planned field experiences.

Prerequisite: DANC 399.

Contact department for information to register for this course.

DANC600 **Introduction to Graduate Studies in Dance**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Supervised writing of reports and articles on selected dance subjects. Study of library resources and interviewing techniques. Preparation for written documentation of thesis project.

Students must pay a $25.00 lab fee.

0101	Miriam Phillips	Seats (Total: 5)
	Tu 9:30am - 12:15pm	PAC 1924

DANC604 **Dance Pedogogy**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Curriculum writing, lesson planning, class structure, assessment/grading, and practice in dance pedagogy. Includes preparation of syllabi and studio teaching practice. This course counts towards teaching ceritification in the State of Maryland.

Students must pay a $25.00 lab fee.

0101	Karen Bradley	Seats (Total: 5)
	Th 10:00am - 12:00pm	PAC 1924

DANC608 **Choreography I; Choreography I**

Credits: 3 Grading Method: Regular, Audit

Developing and defining individual choreographic voice and vision in a shared studio setting.

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Developing and defining individual choreographic voice and vision in a s ared studio setting.

0101	Sara Pearson	Seats (Total: 5)	
	MW 11:00am - 12:50pm	PAC 1908	Lab

DANC610 **Workshop in the Direction of Dance Production**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: DANC410; or students who have taken courses with comparable content may contact the department.

A lecture/laboratory course dealing with the relationship of the director to all of the activities involved in the presentation of a dance concert.

Students must pay a $25.00 lab fee.

0101	Cary Gillett, Paul Jackson MW 12:30pm - 1:45pm	Seats (Total: 5) PAC 1924	

DANC647 **Movement Practice**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Experiential studio work that generates common movement vocabulary and innovations of same in a shared, faculty-led exploration of movement for the purpose of generating vocabulary for technique, choreography, and pedagogy.

Students must pay a $25.00 lab fee.

0101	Patrik Widrig Contact instructor or department for details.	Seats (Total: 5)	
0201	Instructor: TBA	Seats (Total: 5)	
0401	Instructor: TBA	Seats (Total: 5)	
0701	Instructor: TBA	Seats (Total: 5)	
0801	Instructor: TBA	Seats (Total: 5)	
1001	Instructor: TBA	Seats (Total: 5)	

DANC648 **Advanced Modern Dance Technique I**

Credits: 2 Grading Method: Regular, Audit

Professional level training in contemporary dance techniques.

Students must pay a $25.00 lab fee.

0101	Christopher Morgan MWF 9:30am - 10:50am	Seats (Total: 5) PAC 1610	Lab

DANC649 **Advanced Modern Dance Technique II**

Credits: 2 Grading Method: Regular, Audit

A continuation of DANC 648.

Students must pay a $25.00 lab fee.

0101	Christopher Morgan	Seats (Total: 5)	
	MWF 9:30am - 10:50am	PAC 1610	Lab

DANC678 **Individual Movement Practice**

(Perm req)

Credits: 2 Grading Method: Regular

Students in consultation with the adviser, propose a specific movement practice and can select the practice from the range of technique offerings in the program. Additional work in documenting and providing evidence of growth towards individual outcomes is required.

0101	Karen Bradley	Seats (Total: 5)
	Contact instructor or department for details.	

DANC679 **Graduate Dance Performance**

Credits: 1-3 Grading Method: Regular, Audit

An advanced performance course focusing on the restagings from noted scores of the choreographic works of significant artists in the field.

0101	Patrik Widrig	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Sara Pearson	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Anne Warren	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Alvin Mayes	Seats (Total: 5)
	Contact instructor or department for details.	
0501	Paul Jackson	Seats (Total: 5)
	Contact instructor or department for details.	
0601	Sharon Mansur	Seats (Total: 5)
	Contact instructor or department for details.	

0701	Karen Bradley Contact instructor or department for details.	Seats (Total: 5)
0801	Miriam Phillips Contact instructor or department for details.	Seats (Total: 5)
1001	Adriane Fang Contact instructor or department for details.	Seats (Total: 5)

DANC698 **Independent Study in Dance**

Credits: 1-3 Grading Method: Regular, Audit

Directed independent study in theoretical topics.

Contact department for information to register for this course.

DANC719 **Choreographic Project**

Credits: 3 Grading Method: Regular, Audit

Research-based choreographic projects in preparation for the choreographed thesis project.

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Research-based choreographic projects in preparation for the choreographed thesis project.

0101	Christopher Morgan MW 3:30pm - 5:30pm	Seats (Total: 5) PAC 1912

DANC777 **Internship in Dance**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Internship in dance advocacy, administration, education, community building, choreography, or performance with an agency off campus and with a national or international profile.

0101	Karen Bradley Contact instructor or department for details.	Seats (Total: 5)

DANC788 **Master's Tutorial for Choreography; Graduate Tutorial**

Credits: 1-3 Grading Method: Regular, Audit

Supervised production and presentation of a significant choreographic project.

Contact department for information to register for this course.

DANC799 **Master's Thesis Project**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EALL East Asian Languages and Literatures Fall 2015

EALL300 **The Languages of East Asia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

A survey of Chinese, Japanese, and Korean, and the languages of other East Asian nationalities. Provides a basic understanding of the structures of these languages. Topics covered include the characterizing features; the relationships of the languages to each other; the geographical, social, and historical settings. No knowledge of Asian languages is required. Taught in English.

0101	Samuel Ramsey	Seats (Total: 30)	
	MW 3:30pm - 4:45pm	JMZ 2206	

ECON Economics Fall 2015

ECON111 **Thinking Like an Economist**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Restriction: Sophomore standing or lower; or permission of BSOS-Economics department.

An introduction to the modes of thought of economics. Use of simple standard tools of economics to analyze important problems that arise frequently in public policy, the news media, and in daily life. An emphasis on how economists predict what choices societies make and how economists analyze whether those are good choices. Practical application of a variety of economic tools leading to a focus on the essential unity underlying these analytical tools, viewing economics as a discipline that applies a core methodology in different ways in different situations.

0101	Peter Murrell	Seats (Total: 20)	
	TuTh 2:00pm - 2:50pm	JMZ 0220	
	F 9:00am - 9:50am	TLF 1101	Discussion

0102	Peter Murrell TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) JMZ 0220 KEY 0119	Discussion
0103	Peter Murrell TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) JMZ 0220 ARC 1101	Discussion
0104	Peter Murrell TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 KEY 0119	Discussion
0105	Peter Murrell TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 TWS 1105	Discussion
0106	Peter Murrell TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 TYD 1108	Discussion
0201	Peter Murrell TuTh 11:00am - 12:15pm	Seats (Total: 20) TYD 2102	

ECON175 **Inequality: Determinants and Policy Remedies**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Through most of the 20th century gaps in income between rich and poor declined in the US, but after 1970 we experienced a very rapid increase in inequality. This course challenges students to investigate why people make different amounts of money, why income inequality has risen so dramatically in recent years, what public policy tools exist to counter inequality increases, and what different institutional arrangements different countries use to lower inequality. This course will introduce students to theoretical tools used by economists to understand the sources of inequality and will also examine empirical evidence to better understand changes in the wage distribution and, more generally, in income distribution.

0101	Ethan Kaplan MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) MMH 1400 LEF 1221	Discussion

0102	Ethan Kaplan MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) MMH 1400 ARC 1101	Discussion
0103	Ethan Kaplan MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) MMH 1400 ASY 3203	Discussion
0104	Ethan Kaplan MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) MMH 1400 TYD 2108	Discussion
0105	Ethan Kaplan MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) MMH 1400 PLS 1117	Discussion
0106	Ethan Kaplan MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 TYD 0101	Discussion

ECON200 **Principles of Micro-Economics**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH110; or must have math eligibility of MATH111 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models of the behavior of individual consumers and business firms, problems of international trade, the distribution of income, policies for eliminating poverty and discrimination, the problems of environmental pollution, and the impact of different market structures upon economic activity.

Click here for more course information.

BL01	Erin Moody TuTh 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 380) TYD 0130 TYD 0130	Discussion

Blended Learning courses combine face-to-face and online interactions.

BL02	Hossein Abbasi Alikamar TuTh 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 380) TYD 0130 TYD 0130	 Discussion
BL03	Cindy Clement TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 399) TYD 0130 TYD 0130	 Discussion
FCH1	Hossein Abbasi Alikamar MW 7:30pm - 8:45pm Class time/details on ELMs F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 240) KEY 0106 ONLINE KEY 0106	 Discussion Discussion

ECON201 **Principles of Macro-Economics**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH110; or must have math eligibility of MATH111 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to the problems of unemployment, inflation, and economi growth. Emphasis on roles of monetary and fiscal policy in the conduct of macroeconomic policy.

0101	John Neri MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 418) TYD 0130 TYD 0130	 Discussion
0201	John Shea TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 237) SKN 0200 SKN 0200	 Discussion

ECON300 **Methods and Tools for Economic Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and 1 course with a minimum grade of C- from (MATH140, MATH220, MATH130). Restriction: Must be in a major within BSOS-Economics department; and must not have completed MATH240 or MATH241.

Covers several mathematics techniques and demonstrates their application to a wide variety of models and problems in both microeconomic and macroeconomic analysis. Reviews concepts from algebra and elementary calculus and introduces components of multivariable calculus, linear algebra and differential equations.

0101	Erkut Ozbay TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 27) ARM 0135 SQH 1105	Discussion
0102	Erkut Ozbay TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 27) ARM 0135 TYD 0101	Discussion
0103	Erkut Ozbay TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 27) ARM 0135 KEY 0125	Discussion
0104	Erkut Ozbay TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 27) ARM 0135 TYD 1108	Discussion
0105	Erkut Ozbay TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 27) ARM 0135 KEY 0116	Discussion
0106	Erkut Ozbay TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 27) ARM 0135 TYD 0102	Discussion
0201	Nicholas Montgomery MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 27) KEY 0102 TYD 2102	Discussion
0202	Nicholas Montgomery MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 27) KEY 0102 LEF 2208	Discussion

ECON305 **Intermediate Macroeconomic Theory and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON201 and ECON200; and (MATH220, MATH140, or MATH130). Credit only granted for: ECON305 or ECON325. Additional information: ECON325, Intermediate Macroeconomic Analysis, is a different course designed specifically for economics majors. ECON325 is accepted for ECON major requirements, but ECON305 is not.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

0101	John Neri	Seats (Total: 180)
	MWF 12:00pm - 12:50pm	ASY 2203

ECON306 **Intermediate Microeconomic Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON200 or AREC250; and ECON201; and (MATH220, MATH140, or MATH130). Credit only granted for: ECON306, ECON326, AREC489M, or AREC326. Additional information: ECON306, Intermediate Microeconomic Theory, is a different course designed for other majors besides economics. ECON326 is accepted for ECON major requirements, but ECON306 is not.

Analysis of the theories of consumer behavior and of the firm, market systems, distribution theory and the role of externalities.

Contact department for information to register for this course.

ECON311 **American Economic History Before the Civil War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Restriction: Must be in a major within BSOS-Economics department.

Economic concepts are used to analyze various aspects of the founding and early history of the U.S., including the British settlement of the North American colonies, the economics of the American Revolutionary war, the writing of the Constitution, the development of financial markets, policies on public lands and the spread of western agriculture, slavery, banking, and early industrialization.

0102	John Wallis	Seats (Total: 162)
	TuTh 9:30am - 10:45am	SHM 2102

ECON314 **Economic History, Development and Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON200 and ECON201.

Study abroad in the economic history, institutional development, and recent economic policy problems of selected areas.

Contact department for information to register for this course.

ECON315 **Economic Development of Underdeveloped Areas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Credit only granted for: ECON315 or ECON416.

Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.

SG91	Stefania Scandizzo MW 12:30pm - 1:45pm	Seats (Total: 36) BLD3 4230
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON317 **Global Economic Policies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Restriction: Must be in a major within BSOS-Economics department; or permission of BSOS-Economics department. Credit only granted for: ECON398C or ECON317. Formerly: ECON398C.

Analysis of policy options and debates on fostering economic growth and development in a global economy where national boundaries are no longer relevant. Topics covered will include real loanable funds markets in both local and international contexts during normal conditions and during financial crises, the design of trade and industrial policies, and the role of the World Bank, IMF, WTO, and other international agencies as well as regional and bilateral trade agreements. Emerging economies will be emphasized.

0101	Naveen Sarna TuTh 3:30pm - 4:45pm	Seats (Total: 36) TYD 0111
0201	Naveen Sarna TuTh 5:00pm - 6:15pm	Seats (Total: 36) TYD 0111
0301	Naveen Sarna TuTh 2:00pm - 3:15pm	Seats (Total: 36) TYD 0111

ECON321 **Economic Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and 1 course with a minimum grade of C- from (MATH140, MATH220, MATH130). Recommended: STAT100. Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200 or SOCY201.

Introduction to the use of statistics in economics. Topics include: Probability, random variables and their distributions, sampling theory, estimation, hypothesis testing, analysis of variance, regression analysis and correlation.

0101	Satyendra Verma MWF 2:00pm - 2:50pm	Seats (Total: 120) LEF 2205	
0201	Satyendra Verma MWF 12:00pm - 12:50pm	Seats (Total: 115) BPS 1243	

ECON325 **Intermediate Macroeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON300. Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON305 or ECON325. Additional information: ECON305, Intermediate Macroeconomic Theory and Policy, is a different course designed for other majors besides ECON. ECON325 is accepted for major requirements, but ECON305 is not.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

0101	Sadik Aruoba MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 40) SHM 2102 SQH 1103	Discussion
0102	Sadik Aruoba MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 40) SHM 2102 SQH 1103	Discussion
0103	Sadik Aruoba MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 40) SHM 2102 SQH 1103	Discussion

0201	Martina Copelman MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 2109 ASY 3207	Discussion
0202	Martina Copelman MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) TYD 2109 EDU 2119	Discussion
0203	Martina Copelman MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 2109 EDU 2119	Discussion
0301	Martina Copelman MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TYD 1101 EDU 1315	Discussion
0302	Martina Copelman MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 1101 EDU 2101	Discussion
0303	Martina Copelman MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 1101 EDU 3236	Discussion

ECON326 **Intermediate Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON300. Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON306 or ECON326. Additional information: ECON306, Intermediate Microeconomic Theory and Policy, is a different course designed for other majors besides economics. ECON326 is accepted for ECON major requirements, but ECON306 is not.

Analysis of economic decision-making by individual buyers and sellers, and resulting market outcomes, with emphasis on theoretical rigor. The efficient properties of perfect competition are examined, followed by consideration of market power, externalities, and asymmetric information.

0101	Ethan Kaplan MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TWS 1105	Discussion

0102	Ethan Kaplan MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 1101	Discussion
0103	Ethan Kaplan MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TLF 1101	Discussion
0104	Ethan Kaplan MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 1114	Discussion
0105	Ethan Kaplan MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 TYD 2109	Discussion
0106	Ethan Kaplan MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 1132	Discussion
0202	Melissa Kearney TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 30) TYD 0117 KEY 0125	Discussion
0203	Melissa Kearney TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 30) TYD 0117 KEY 0125	Discussion
0205	Melissa Kearney TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 30) TYD 0117 HBK 0123	Discussion

ECON330 **Money and Banking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON201 and ECON200.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

0101	John Neri MW 3:30pm - 4:45pm	Seats (Total: 285) SKN 0200
SG91	Martina Copelman F 9:40am - 12:20pm	Seats (Total: 118) BLD3 3241
	Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON340 **International Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Credit only granted for: ECON340 or ECON441.

Covers economic models of international transactions, exchange rates, and balance of payments. Analysis of policies of protection, devaluation, and exchange rate stabilization and their consequences.

SG91	Stefania Scandizzo MW 9:30am - 10:45am	Seats (Total: 48) BLD3 4230
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG92	Stefania Scandizzo MW 11:00am - 12:15pm	Seats (Total: 48) BLD3 4230
	Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	

ECON386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within BSOS-Economics department; and minimum cumulative GPA of 2.75; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Contact department for information to register for this course.

ECON396 **Independent Honors Study**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON422. Restriction: Permission of BSOS-Economics department.

Normally taken in senior year. Course will explore selected topics in economic theory and its application in depth. Analysis of methodologies in economic research and the development of student skills in research methods. Students will prepare workshop papers.

0101	Nuno Limao	Seats (Total: 15)
	TuTh 9:30am - 10:45am	TYD 4118C

ECON397 **Honors Thesis**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON396. Restriction: Must be a candidate for honors in economics.

General supervision will be provided through assembled meetings with the professor in charge of the course.

Contact department for information to register for this course.

ECON398H **Topics in Economics; British Economy and Financial System**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON398I **Topics in Economics; Urban and Regional Economics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Restricted to ECON majors only. Prerequisites: One course with a minimum grade of C- from (ECON321 or STAT400); and minimum grade of C- in ECON326. Analysis of economic forces shaping cities and geographic regions within a country, land use, housing, transportation. Students will learn economic tools to examine issues where location is a critical element of what constitutes a "market" and in forming cultural and economic identity.

0101	Nicholas Montgomery MWF 10:00am - 10:50am	Seats (Total: 38) TYD 1108
0201	Nicholas Montgomery MWF 11:00am - 11:50am	Seats (Total: 38) TYD 1102

ECON398L **Topics in Economics; The British Economy and Financial Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON398O **Topics in Economics; The Economics of Entrepreneurship**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Prerequisite: ECON422 with a C- or better. Permission of BSOS-Economics department. Students will produce a series of short, empirical research projects focused on startup companies, their role in job creation and productivity growh, and the conditions that influence their success or failure.

0101	John Haltiwanger MW 2:00pm - 3:15pm *Prerequisite: ECON422 with a C- or better. Restriction: Permission of BSOS-Economics department.*	Seats (Total: 20) TYD 2110

ECON399 **Individual Readings and Research For Undergraduates**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Individual Instruction course: contact department or instructor to obtain section number. Open only to students who have previously earned 6 or more credits in 400-level economics courses.

Permission of instructor must be arranged in advance. Open only to students who have previously earned 6 or more credits in upper division economics courses.

Contact department for information to register for this course.

ECON401 **Current Issues in American Economic Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON321, STAT400); and minimum grade of C- in ECON325 and ECON326. Restriction: Must be in a major within the BSOS-Economics department.

Analysis of current economic problems and public policies. Topics include increasing competitiveness, mitigating poverty, addressing harmful effects of income inequality, promoting environmental sustainability, and facilitating economic stability and growth.

0101	John Sabelhaus TuTh 8:00am - 9:15am	Seats (Total: 25) TYD 1102

ECON414 **Game Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties with conflicting interests must work together. Learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

0101	Gustavo Saraiva MW 5:00pm - 6:15pm	Seats (Total: 38) TYD 2111
0201	Erin Moody TuTh 12:30pm - 1:45pm	Seats (Total: 38) TYD 1114
0301	Erin Moody TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 2102

ECON416 **Theory of Economic Development**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON315 or ECON416.

Economic theory of the developing nations; role of innovation, capital formation, resources, institutions, trade and exchange rates, and governmental policies.

0101	Raymond Guiteras TuTh 8:00am - 9:15am	Seats (Total: 38) TYD 2110
0201	Raymond Guiteras TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 1114
0301	Raymond Guiteras TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 2111

ECON422 **Econometrics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (STAT400, ECON321). Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON422, AREC422, or AREC489F.

Emphasizes the interaction between economic problems and the assumption employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.

0101	Xing Hong TuTh 5:00pm - 6:15pm	Seats (Total: 38) KEY 0126
0201	Sergio Urzua MW 11:00am - 12:15pm	Seats (Total: 38) TYD 1132
0301	Hossein Abbasi Alikamar MW 9:30am - 10:45am	Seats (Total: 38) TYD 2110
0401	Hossein Abbasi Alikamar MW 11:00am - 12:15pm	Seats (Total: 38) TYD 1118

ECON423 **Econometrics II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON422. Restriction: Permission of BSOS-Economics department.

Interaction between economic problems and specification and estimation of econometric models. Topics include issues of autocorrelation, heteroscedasticity, functional form, simultaneous equation models, qualitative choice models, and other computational methods.

0101	Guido Kuersteiner TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 2108

ECON424 **Computer Methods in Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department.

Database development from Internet and other sources, research methods, and statistical analysis in economics using EXCEL and SAS.

0101	Shanxiao Wang TuTh 3:30pm - 4:45pm	Seats (Total: 38) LEF 0231
0102	Shen Hui MW 3:30pm - 4:45pm	Seats (Total: 38) LEF 0231
0103	Kevin Dayaratna TuTh 6:30pm - 7:45pm	Seats (Total: 35) LEF 0229

ECON435 **Financial Markets and the Macroeconomy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON325 and ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department; and must not have completed BMGT343. Credit only granted for: BMGT343 or ECON435. Additional information: Finance majors will not receive credit for ECON435.

The different types of financial assets that exist, the markets that they trade in, and the determination of their prices and rates of return are examined. Specific topics that will be covered include the Markowitz portfolio selection model, the capital asset pricing model, the arbitrage pricing theory, the efficient markets hypothesis, the term structure of interest rates, and options. There will be almost no emphasis on issues in corporate finance.

0201	Hsuan Yu MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 1108
0301	Dun Jia TuTh 5:00pm - 6:15pm	Seats (Total: 38) TYD 0101

ECON442 **Globalization and Capital Markets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326 and ECON325; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department; and must not have completed ECON441. Credit only granted for: ECON441 or ECON442.

Uses models of open-economy macroeconomics to explain the causes and consequences of international capital flows. Analysis is made of private consumption, investment, the government sector, current accounts, the labor market, and the money and foreign exchange markets in small open economies. This framework is then used to study examples of how speculative attacks on currencies, sudden reversals of capital inflows, and the effects of the lack of credibility of economic policy affect economic development.

0101	Felipe Saffie TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 1101
0201	An Wang MW 5:00pm - 6:15pm	Seats (Total: 38) TYD 1132

ECON443 **International Trade and Trade Policy in the New Global Economy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326 and ECON325. Restriction: Must be in a major within the BSOS-Economics department; and must not have completed ECON441. Credit only granted for: ECON441 or ECON443.

Examines the economics of international economic integration, including the theory of customs unions and free trade areas, the role of GATT and the WTO, changes in individual countries' foreign trade policies during the new era of globalization, the special role of multinational firms in world trade, and recent controversies about the benefits and costs of globalized trade.

0101	Yang Xu TuTh 5:00pm - 6:15pm	Seats (Total: 38) TYD 2110

ECON454 **Public Finance and Public Policy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON350 or ECON454.

Study of welfare economics and the theory of public goods, taxation, public expenditures, benefit-cost analysis, and state and local finance. Applications of theory to current policy issues.

0101	Charles Hulten MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 1132
0301	Kenneth Coriale MW 5:00pm - 6:15pm	Seats (Total: 38) TYD 0102

ECON460 **Industrial Organization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department.

Examines different theoretical models of firm behavior in markets with varying amounts of market power. Relates theory to specific industries and examines how market structure evolves over time.

0101	Andrew Sweeting MW 2:00pm - 3:15pm	Seats (Total: 38) TYD 2108

ECON470 **Labor Economics:Theory and Evidence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department.

An analytical treatment of theories of labor markets, and an examination of empirical findings, evidence and conclusions. Topics covered will include some or all of the following: labor demand; labor supply and labor market participation; theory of human capital; earnings differentials; and if time allows, market structure and the efficiency of labor markets; and unemployment.

0101	Judith Hellerstein TuTh 11:00am - 12:15pm	Seats (Total: 32) TYD 1108

0201	Judith Hellerstein TuTh 2:00pm - 3:15pm	Seats (Total: 38) TYD 2110	

ECON601 **Macroeconomic Analysis I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Economics department.

Introductory technical treatment of standard Keynesian, classical and new classical macroeconomic models. Expectations formation and microeconomic foundations of consumption, investment, money demand, and labor market behavior.

0101	Allan Drazen, John Shea MW 9:30am - 10:45am M 5:00pm - 6:45pm	Seats (Total: 45) TYD 1114 TYD 1108	 Discussion

ECON603 **Microeconomic Analysis I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Economics department.

A detailed treatment of the theory of the consumer and of the firm, particularly emphasizing the duality approach. Topics include the household production model, imperfect competition, monopolistic and oligopolistic markets.

0101	Emel Filiz Ozbay, Lawrence Ausubel TuTh 2:00pm - 3:15pm Tu 5:15pm - 6:45pm	Seats (Total: 50) TYD 2111 SQH 1117	 Discussion

ECON616 **Economic Development II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON615, ECON603, and ECON604; or permission of BSOS-Economics department.

Survey of a variety of models explaining how market failures may lead to poverty and underdevelopment, with an emphasis on the empirical evaluation of constraints faced by individuals in developing countries and the programs that attempt to alleviate those constraints. Topics include: agricultural and land markets, labor markets, human capital in developing countries, credit markets, and consumption smoothing and risk coping.

0101	Jessica Goldberg MW 11:00am - 12:15pm	Seats (Total: 20) TYD 4103	

ECON623 **Econometrics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have advanced knowledge of probability, statistics, and linear algebra. Restriction: Permission of BSOS-Economics department.

Specification, estimation, hypothesis testing and prediction in the classical and generalized linear regression model. Topics include: ordinary least squares, generalized least squares, instrumental variableestimation, quantile regression, finite and large sample analysis and general testing principles including misspecification tests. The course will also provide instructions on the use of a major statistical packagesuch as Stata or TSP.

0101	John Chao TuTh 12:30pm - 1:45pm Th 4:30pm - 6:15pm	Seats (Total: 41) TYD 2110 TYD 1108	 Discussion

ECON625 **Computational Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON624. Credit only granted for: ECON625 or ECON698R. Formerly: ECON698R.

An examination of the specification, computation, estimation and interpretation of structural models that are widely used in applied microeconomics (empirical and theoretical Industrial Organization, public and urban economics, environmental economics, development, political economy (e.g., voting), health and education economics, trade) and Marketing. The focus will be on how to use these models in practice, and students will solve and estimate models in weekly problem sets, with solutions/code being discussed in class.

0101	Andrew Sweeting MW 9:30am - 10:45am	Seats (Total: 20) TYD 0101

ECON630 **Computational Methods in Macroeconomics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON601. Restriction: Must be in one of the following programs (Economics (Master's); Economics (Doctoral)) ; or permission of BSOS-Economics department.

Essential computational methods used in macroeconomics. There will be particular focus on approximating the solution to dynamic stochastic general equilibrium models. Methods for representative-agent and heterogeneous-agent models will be extensively studied. Econometric methods such as Generalized Method of Moments, Maximum Likelihood, Vector Autoregressions wil also be covered.

Beginning on Fri, October 23rd, students will need to attend an evening meeting from 5:30p-830p.

0101	Ceyhun Durdu, Sadik Aruoba Tu 2:00pm - 3:15pm Contact instructor or department for details.	Seats (Total: 16) TYD 4103

ECON635 **Experimental Economics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

An introduction to the methodology of laboratory and field experiments. The course concentrates on a series of experiments to show how experiments build on one another, allowing researchers with different theoretical dispositions to narrow the range of potential disagreement.

0101	Erkut Ozbay TuTh 2:00pm - 3:15pm	Seats (Total: 20) KEY 0124

ECON641 **Microeconomic Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department. Credit only granted for: ECON641 or ECON506. Formerly: ECON506.

Microeconomic analysis applied to public policy problems with an emphasis on practical examples and how they illustrate microeconomic theories. Policy issues such as pollution, welfare and income distribution, market design, industry regulation, price controls, tax policy and health insurance are practical examples used to illustrate the abstract principles of microeconomics.

Click here for more course information.

PR01	John Straub	Seats (Total: 24)	
	Meets August 31, 2015 - November 20, 2015		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Restricted to students in the Department of Economics' Professional Program. Class meets at 1400 16th Street NW., Washington, DC.		
PR02	Brendan Epstein	Seats (Total: 24)	
	Meets August 31, 2015 - November 20, 2015		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Restricted to students in the Department of Economics' Professional Program. Class meets at 1400 16th Street NW., Washington, DC.		

ECON643 **Empirical Analysis I: Foundations of Empirical Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ECON643 or ECON521. Formerly: ECON521.

Fundamental aspects of data management and interpretation emphasizing sampling, descriptive statistics, index numbers and construction of aggregated variables. Students will learn probability theory, confidence intervals, hypothesis testing and regression analysis using the EXCEL spreadsheet program and STATA statistical software.

Click here for more course information.

PR01	Ephraim Leibtag	Seats (Total: 24)	
	Meets August 31, 2015 - November 20, 2015		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Restricted to students in the Department of Economics' Professional Program. Class meets at 1400 16th Street NW., Washington, DC.		

PR02	Ephraim Leibtag **Meets August 31, 2015 - November 20, 2015** W 6:45pm - 9:30pm Class time/details on ELMs	Seats (Total: 24) Location: TBA ONLINE	 Discussion

Restricted to students in the Department of Economics' Professional Program. Class meets at 1400 16th Street NW., Washington, DC.

ECON645 **Empirical Analysis III: Econometric Modeling and Forecasting**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON644. Credit only granted for: ECON645 or ECON523. Formerly: ECON523.

Study of empirical techniques that are particularly relevant to the analysis of microeconomic models. Emphasis is on advanced panel data methods, time series regressions, instrumental variables, limited dependent variables, and sample selection corrections.

Click here for more course information.

PR01	Erkan Erdem **Meets August 31, 2015 - November 20, 2015** M 6:45pm - 9:30pm Class time/details on ELMs	Seats (Total: 24) Location: TBA ONLINE	 Discussion

Restricted to students in the Department of Economics' Professional Program. Meets at 1400 16th Street NW., Washington, DC.

ECON652 **Public Economics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON624.

The characteristics and effects of government programs whose role is redistribution and social insurance are considered. Examples include cash welfare assistance, unemployment insurance, and Social Security. The focus is on U.S. programs, though other countries may be considered. Both theories of program design and empirical research on program effects will be covered. Topics in empirical methodology generally will also be stressed.

0101	Lesley Turner TuTh 2:00pm - 3:15pm	Seats (Total: 9) TYD 4118C

ECON662 **Theories of Industrial Organization**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON603.

Classical theories of industry organization are analyzed. Topics includ monopoly price discrimination, product differentiation and bundling as well as traditional oligopoly models of Cournot and Bertrand are examined. Dynamic models of oligopoly including entry deterrence and collusion are discussed in addition to games of research and development. Long-run industry structures and dynamics are also analyzed. Also investigates implications of these models for antitrust policy.

0101	Daniel Vincent	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 2110

ECON670 **Financial Economics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

The course applies microeconomic theory and applied econometric techniques to the study of financial institutions and markets for financial assets. Students will learn how economists model and estimate the value of financial assets. The economic and empirical models are of interest to public policy makers and private wealth managers. Specific topics can include financial intermediation, the regulation of financial institutions, risk management, portfolio theory, the capital asset pricing model and the efficient markets hypothesis.

PR01	John Neri	Seats (Total: 24)
	Meets August 31, 2015 - November 20, 2015	
	Tu 6:45pm - 9:30pm	Location: TBA
	Contact instructor or department for details.	
	Restricted to students in the Department of Economics' Professional Program. Meets at 1400 16th Street N.W.	

ECON676 **Economic Development**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Analysis of economic development. The course will focus on the consequences of poverty and poor institutions for the behavior and welfare of individuals, households, firms and the aggregate economy in developing countries. Theoretical models and empirical evidence will be used to understand the intended and unintended consequences of policies designed to enhance economic development.

PR01	Jacob Goldston	Seats (Total: 24)
	Meets August 31, 2015 - November 20, 2015	
	W 6:45pm - 9:30pm Contact instructor or department for details.	Location: TBA
	Restricted to students in the Department of Economics' Professional Program. Meets at 1400 16th Street N.W.	

ECON683 **International Macroeconomics and Finance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641 and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Economic analysis of international macroeconomic issues and policy. Topics can include the study of exchange rates, balance of payments, international financial markets, international business cycles, contagion, and the roles played by international economic institutions.

PR01	Rehim Kilic	Seats (Total: 24)
	Meets August 31, 2015 - November 20, 2015	
	M 6:45pm - 9:30pm Contact instructor or department for details.	Location: TBA
	Restricted to students in the Department of Economics' Professional Program. Meets at 1400 16th Street N.W.	

ECON698 **Selected Topics in Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ECON701 **Advanced Macroeconomics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON601.

Recent developments in macroeconomics with an emphasis on topics and techniques useful for conducting research in macroeconomics. Topics include advanced treatment of fiscal and monetary policy issues; the role of imperfect competition; real, sectoral and nominal business cycle models.

0101	Sadik Aruoba MW 11:00am - 12:15pm	Seats (Total: 25) TYD 0101

ECON703 **Advanced Microeconomics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON604 and ECON603.

Formal treatment of game theory and its microeconomic applications are presented, emphasizing dynamics and information. Equilibrium concepts for static and dynamic games, and games with complete and incomplete information are studied. Topics also discussed: mechanism design, efficiency, reputations, signaling, and screening.

0101	Lixin Ye, David Malec TuTh 9:30am - 10:45am	Seats (Total: 30) TYD 0111

ECON708 **Advanced Topics in Applied and Theoretical Microeconomics**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Read, discuss, and analyze current topics in microeconomics, including public economics, environmental economics, labor economics, industrial economics, microeconomic theory, public choice and international trade. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0101	Jessica Goldberg MW 12:30pm - 1:45pm	Seats (Total: 5) TYD 0111
0201	Daniel Vincent MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
0301	Sergio Urzua MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
0501	Lesley Turner MW 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA

ECON709 **Advanced Topics in Applied and Theoretical Macroeconomics**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Read, discuss, and analyze current topics in macroeconomics, including asset pricing models, models of economic growth, investment, and the labor market. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0101	John Chao TuTh 12:30pm - 1:45pm	Seats (Total: 5) TYD 0102
0201	Charles Hulten TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
0301	Felipe Saffie TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA
0401	Guido Kuersteiner TuTh 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA

ECON721 **Econometrics III**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON624; or permission of BSOS-Economics department.

Oriented towards macro-econometric methods. Topics covered will be selected from the following: Further discussion of topics covered in ECON624, nonlinear time series models, exogeneity and causality, non-stationary time series models (unit roots, co-integration, error correction models, vector autoregressive models), econometric models of volatility (ARCH and GARCH models, and Stochastic volatility models), rational expectations models, non-stationary panel data models, tests for structural change, Bayesian econometrics and methods for Bayesian computation.

0101	John Chao TuTh 5:00pm - 6:15pm	Seats (Total: 20) TYD 2108

ECON741 **Advanced International Economics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON601; or permission of BSOS-Economics department.

Exchange rate determination; exchange rate regimes; international monetary reform; policy conflict and cooperation; the LDC debt problem; pricing of international assets; balance of payments crises.

0101	Felipe Saffie	Seats (Total: 20)
	TuTh 9:30am - 10:45am	TYD 2108

ECON742 **Advanced International Economics II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603; or permission of BSOS-Economics department.

Comparative advantage, Heckscher-Ohlin theory, specific-factors model, empirical verification, economies of scale, imperfect competition, commercial policy, factor mobility.

0101	Nuno Limao	Seats (Total: 9)
	TuTh 11:00am - 12:15pm	TYD 4118C

ECON754 **Topics in Political Economy I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON602 and ECON604; or permission of BSOS-Economics department.

Study of political determinants of macroeconomic outcomes. Time inconsistency in monetary and fiscal policy, political business cycles. Political models of redistribution, delay in reform, transition, growth, and international policymaking.

0101	Allan Drazen	Seats (Total: 20)
	MW 11:00am - 12:15pm	TYD 4118C

ECON771 **Advanced Labor Economics: Theory and Evidence**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603 and ECON624; or permission of BSOS-Economics department.

Modern analytical and quantitative labor economics. Labor supply decisions of individuals and households; human capital model and distribution of income. Demand for labor; marginal productivity theory, imperfect information and screening. Interaction of labor demand and supply; unemployment; relative and absolute wages; macroeconomic aspects of the labor market.

0101	Sergio Urzua MW 2:00pm - 3:15pm	Seats (Total: 9) TYD 4118C

ECON785 **Advanced Economics of Natural Resources**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON603, ECON604, and ECON624.

The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.

Also offered as AREC785. Credit will be granted for one of the following: AREC785 or ECON785.

0101	Jorge Holzer Bilbao, Sebastien Houde MW 1:00pm - 2:15pm	Seats (Total: 28) HBK 0123

ECON799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ECON808 **Workshop on Macroeconomics and Growth; Workshop in Applied Economics**

Credits: 2 Grading Method: Sat-Fail, Audit

0101	John Chao W 3:30pm - 5:30pm	Seats (Total: 10) TYD 2110
0201	Felipe Saffie W 3:30pm - 5:30pm	Seats (Total: 10) Location: TBA
0301	Charles Hulten W 3:30pm - 5:30pm	Seats (Total: 10) Location: TBA
0401	Guido Kuersteiner W 3:30pm - 5:30pm	Seats (Total: 10) Location: TBA

ECON828 **Workshop in Econometrics**

Credits: 2 Grading Method: Sat-Fail, Audit

Current research in econometrics. Topics drawn from theoretical and applied econometrics. Special topics include: maximum likelihood and generalized method of moments estimation of linear and non-linear models, analysis of stationary and non-stationary time series, cross section time series estimation, spatial estimation mehtods, Bayesian methods, semi-and non-parametic methods, rational expectations models, numerical methods, and various applications.

0101	Ingmar Prucha M 3:30pm - 5:30pm	Seats (Total: 20) TYD 2108

ECON848 Workshop in International Development, and Comparative Economics

Credits: 2 Grading Method: Sat-Fail, Audit

0101	Ethan Kaplan M 3:30pm - 5:30pm	Seats (Total: 20) TYD 2110

ECON868 Workshop in Industrial Organization

Credits: 2 Grading Method: Sat-Fail, Audit

0101	Emel Filiz Ozbay Tu 3:30pm - 5:30pm	Seats (Total: 20) TYD 1108
0201	Daniel Vincent Tu 3:30pm - 5:30pm	Seats (Total: 20) Location: TBA

ECON878 Workshop in Labor Economics

Credits: 2 Grading Method: Sat-Fail, Audit

0101	Raymond Guiteras Th 3:30pm - 5:30pm	Seats (Total: 10) TYD 1118
0201	Jessica Goldberg Th 3:30pm - 5:30pm	Seats (Total: 10) Location: TBA

ECON898 Pre-Candidacy Research

(Perm req) Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

EDCI Curriculum and Instruction Fall 2015

EDCI210 **Exploring Teaching as a Career**

Credits: 3 Grading Method: Regular General Education: DSSP

Weekly participation as a volunteer tutor in a local school or community program with children or adolescents. Regular campus meetings assist with developing teaching skills and insight.

0101	Loretta Holmberg-Masden	Seats (Total: 15)
	Tu 2:00pm - 4:00pm	CSS 2316
	Contact instructor or department for details.	

EDCI243 **Attitudes and Beliefs about the "Other" in Literature, Film and the Media**

Credits: 3 Grading Method: Regular CORE: HL, D General Education: DSHU, DVCC, DVUP

An examination of the ways various media represent dominant and non-dominant identities and the parameters for acceptable social behavior, and how these sociocultural forces shape personal identities, cultural competence and interpersonal power dynamics.

0201	Melissa Landa	Seats (Total: 28)
	M 9:30am - 12:00pm	EDU 1315

EDCI246 **Good Stories: Teaching Narratives for Peace and Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU, SCIS

Through the study and use of oral storytelling and digital technologies explore qualities and characteristics of what makes a good story and how stories can be used to advance peace and justice on both individual and social levels.

0101	Joseph McCaleb	Seats (Total: 27)	
	Tu 9:30am - 10:45am	TYD 1102	
	Th 9:30am - 10:45am	TYD 1102	Lab

0102	Joseph McCaleb Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 27) TYD 1102 TYD 1102	 Lab

EDCI280 **Looking Inside Schools and Classrooms**

Credits: 3 Grading Method: Regular

An exploration of teaching in public schools, grades 1-12: student diversity, societal changes, and the expectations of teachers and public schools. Three hour per week field component.

Two hours per week on campus plus three hours per week in a local school off campus. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the offcampus school experience. All schools require that fingerprinting and background checks be completed, at an additional cost of approximately $62, prior to the start of the experience.

0101	Lisa Bote Tu 12:30pm - 2:20pm Tu 8:30am - 11:30am	Seats (Total: 24) EDU 2121 Location: TBA	 Lab
0102	Lisa Bote Tu 12:30pm - 2:20pm W 12:30pm - 3:30pm	Seats (Total: 6) EDU 2121 Location: TBA	 Lab
0201	Tracy Dunheimer Th 2:00pm - 3:50pm Th 8:30am - 11:30am	Seats (Total: 24) EDU 3315 Location: TBA	 Lab
0202	Tracy Dunheimer Th 2:00pm - 3:50pm W 12:30pm - 3:30pm	Seats (Total: 6) EDU 3315 Location: TBA	 Lab

EDCI288D **Special Topics in Teacher Education; Developmental Heuristics**

Credits: 3 Grading Method: Regular

0101	Tilahun Beyene Contact instructor or department for details.	Seats (Total: 20)

EDCI288W **Special Topics in Teacher Education; Forbidden Books: Censorship of Children's and Young Adult Literatur**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

0101	Wayne Slater TuTh 12:30pm - 1:45pm	Seats (Total: 80) SQH 1120

EDCI298 **Special Problems in Teacher Education**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

EDCI305E **Curriculum and Instruction Cluster**

(Perm req)

Credits: 0 | Grading Method:

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)

EDCI305M **Curriculum and Instruction Cluster**

(Perm req)

Credits: 0 | Grading Method:

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)

EDCI322 **Curriculum and Instruction in Elementary Education: Social Studies**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: EDCI352, EDCI362, EDCI342, and EDCI372. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Elementary Education program.

Curriculum, organization and methods of teaching, evaluation of materials, and utilization of environmental resources. Emphasis on multicultural education. Includes laboratory/field experiences.

0101	Donna Phillips Tu 8:30am - 10:20am Contact instructor or department for details. *Please contact Leslie Gettier, lgettier@comcast.net for more information.*	Seats (Total: 0) EDU 1315
0201	Lisa Eaker W 10:30am - 12:20pm Contact instructor or department for details.	Seats (Total: 0) EDU 2119
0301	Lisa Eaker M 1:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 0) EDU 2119

EDCI342 **Curriculum and Instruction in Elementary Education: Language Arts**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: EDCI352, EDCI362, EDCI372, and EDCI322. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Elementary Education program.

Listening, oral communication, functional writing, creative writing, spelling, handwriting, and creative expression. Includes laboratory/field experiences.

0101	Margaret Peterson M 10:30am - 12:20pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0201	Melissa Landa Th 10:30am - 12:20pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0301	John O'Flahavan M 8:30am - 10:20am Contact instructor or department for details.	Seats (Total: 0) EDU 2121

EDCI352 **Curriculum and Instruction in Elementary Education: Mathematics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: EDCI362, EDCI342, EDCI372, and EDCI322. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Materials and procedures to help children sense arithmetical meanings and relationships. Development of an understanding of the number system and arithmetical processes. Includes laboratory/field experiences.

0101	Rodrigo Gutierrez M 1:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0201	Lisa Bote W 8:30am - 10:20am Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0301	Lisa Bote Tu 10:30am - 12:20pm Contact instructor or department for details.	Seats (Total: 0) EDU 2121

EDCI355 **Field Experience in Secondary Mathematics Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Prerequisite: Minimum of 6 credits from MATH400-499 course range. Corequisite: EDCI 455. Restriction: Must be in Secondary Educ: Mathematics program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as an aide to two secondary mathematics teachers (middle grades and high school); assigned responsibilities and participation in a variety of teaching/learning activities.

0101	John Seelke Contact instructor or department for details.	Seats (Total: 20)

EDCI360 **Field Experience in Middle School**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Prerequisite: EDCI457 and EDCI411; or permission of instructor. Corequisite: EDCI413 and EDCI424. Restriction: Minimum cumulative GPA of 2.5; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in the Middle School Teacher Education Program. Credit only granted for: EDCI355, EDCI360 or EDCI375.

A Middle-school field experience that precedes student teaching.

Two hourse per week required in a school for field experience.

0101	Stacy Pritchett Contact instructor or department for details.	Seats (Total: 0)

EDCI362 **Materials and Instruction for Creating Skilled and Motivated Readers, Part 2**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: EDCI352, EDCI342, EDCI372, and EDCI322. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Selecting, evaluating, and using a variety of materials and instructional techniques to create skilled and motivated readers in the elementary grades, particularly in diverse classroom settings; Topics include word analysis, spelling, writing, reading comprehension strategies, directed reading lessons and explicit instruction.

0101	Jennifer Albro Tu 10:30am - 12:20pm Contact instructor or department for details.	Seats (Total: 0) EDU 1315
0201	Peter Afflerbach Th 8:30am - 10:20am Contact instructor or department for details.	Seats (Total: 0) EDU 2121
0301	Jennifer Albro M 10:30am - 12:20pm Contact instructor or department for details.	Seats (Total: 0) EDU 2119

EDCI372 **Curriculum and Instruction in Elementary Education: Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI397. Corequisite: EDCI352, EDCI362, EDCI342, and EDCI322. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Objectives, methods, materials and activities for teaching science in the elementary school; emphasis on teaching strategies which help children learn the processes and concepts of science. Includes laboratory/field experiences.

0101	James McGinnis M 8:30am - 10:20am Contact instructor or department for details.	Seats (Total: 0) EDU 2212
0201	James McGinnis Th 1:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 0) EDU 2212

0301	Natalie Ylizarde Tu 8:30am - 10:20am Contact instructor or department for details.	Seats (Total: 0) EDU 2212

EDCI375 **Field Experience in Science Education**

Credits: 1 Grading Method: Sat-Fail

Corequisite: EDCI470. Restriction: Must be in Secondary Educ: Science program.

This field experience course is designed to provide prospective teacher with knowledge of theory and best school practice relevant to effective pedagogy, current educational goals, and trends in educational assessment in a public school environment. Topics includes planning, instructional delivery, diversity and individual differences, classroom management, technology, and inclusion of students with special needs.

0101	Tranae Johnson Contact instructor or department for details.	Seats (Total: 15)

EDCI400 **Field Experience in Art Education**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Secondary Educ: Art program.

Practical classroom experience in teaching/evaluating/exhibiting the products of art lessons.

Six hours for field experience required.

0101	Susan Hendricks Contact instructor or department for details.	Seats (Total: 10)

EDCI403 **Introduction to Teaching Art in Schools**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75.

Introduction to the field of Art Education and the role of the visual arts in grades PreK-12 for today's diverse school populations. The fundamental, historical and philosophic components of art education with an emphasis on arts disciplines and curriculum. Includes a school-based practicum. For those considering art education as a major.

0101	Margaret Walker	Seats (Total: 19)
	Th 9:00am - 12:00pm	ARC 1121

EDCI406 **Technology and Two-Dimensional Art**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT210. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and junior standing or higher; and must not be in any of the following programs (Early Childhood Education; Elementary Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Physical Education; Music Education; Special Education).

A discussion/studio format used to develop skills, materials, resources and education strategies for using technology and two-dimensional art in K-12 programs.

0101	Margaret Walker	Seats (Total: 19)
	TuTh 1:00pm - 3:15pm Th 3:30pm - 5:00pm	EDU 1315 Location: TBA Lab
	Lab portion meets for seven Thursdays from 3:30-5pm at Berwyn Heights Elementary School.	

EDCI410 **Methods I: K-12 World Language Methods and Technology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI330 or EDCI410. Formerly: EDCI330.

The first of two sequential courses required for achieving competence i teaching a foreign language. The sequel to this course is EDCI433 (Methods II) entitled: Advanced K-12 Foreign Language Methods and Technology. EDCI410 requires on-going examination of theories relevant to language acquisition. Students will also investigate the instructional methods that reflect those theories. Lab and field experiences required.

0101	Perla Blejer	Seats (Total: 15)
	MW 2:00pm - 3:15pm	EDU 3315

EDCI411 **Knowledge, Reasoning, and Learning in Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI370 or EDCI411. Formerly: EDCI370.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

0101	Kelly Mills TuTh 2:00pm - 3:15pm	Seats (Total: 25) HBK 0123

EDCI413 **Interdisciplinary Teaching in the Middle Grades I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI457 and EDCI411; or permission of instructor. Corequisite: EDCI360 and EDCI424. Restriction: Minimum cumulative GPA of 2.75; and must be in the Middle School Teacher Education Program, major code 0804P.

For prospective middle school teachers. Studying and planning interdisciplinary instructional practices in middle school. Utilizes context and experiences from students' field placements. Use of technology and incorporation of technology into instruction.

0101	Daniel Levin Th 10:00am - 12:00pm	Seats (Total: 20) EDU 3236
IH60	Janet Walkoe **Meets August 31, 2015 - December 11, 2015** M 1:00pm - 3:00pm	Seats (Total: 25) Location: TBA

EDCI416 **Teaching and Learning in Secondary Education: English**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: EDCI340 or EDCI416. Formerly: EDCI340.

An introduction for prospective middle and secondary English teachers into the basic issues, concepts, orientations, and processes that shape the teaching of English for diverse students in schools. Candidates explore their own perspectives in relation to local and national trends and develop basic teaching understanding and skills through on-campus seminars, teaching laboratory experiences, and guided field experiences. Students should reserve one full day or two half days per week for field experience.

Reserve one half day for entire semester for field experience.

0101	Peggy Wilson M 8:30am - 10:15am W 8:30am - 10:15am	Seats (Total: 12) EDU 3315 EDU 3315	 Lab
0102	Peggy Wilson M 8:30am - 10:15am M 2:30pm - 4:15pm	Seats (Total: 12) EDU 3315 KNI 1103	 Lab

EDCI423 **Art Education Methods II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDCI405; or students who have taken courses with comparable content may contact the department. Corequisite: EDCI400. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Art program.

Methods II builds upon the pedagogical foundation of Methods I and provides future art teachers with the means for developing pre K-12 art lessons and unit plans for a balanced qualitative art program for today's diverse and inclusive schools and classrooms.

0101	Susan Hendricks Th 9:00am - 12:00pm	Seats (Total: 18) EDU 1315

EDCI424 **Equitable Classrooms**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI297, EDCI457, and EDCI411. Corequisite: EDCI360 and EDCI413. Restriction: Minimum cumulative GPA of 2.75; and must be in Middle School Education program.

An exploration and application of major theoretical frameworks surrounding equity and critical pedagogy. Creating habits of mind that help teachers see all students as capable of achieving at high levels. Draws on the concurrent field experience.

0101	Kristin Sinclair Tu 10:00am - 12:00pm	Seats (Total: 0) HBK 0103

EDCI426 **Knowledge, Reasoning, and Learning in Secondary Social Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75.

An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.

0101	Lisa Eaker	Seats (Total: 30)
	Th 4:15pm - 7:00pm	EDU 1107

EDCI427 **Curriculum, Teaching, and Assessment in Secondary Social Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: EDCI426. Corequisite: EDCI428. Restriction: Must be in Secondary Educ: Social Studies program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Center for Learning & Educational Technology.

An exploration of curriculum development, teaching, and assessment in secondary history/social studies. Focus on identifying students' conceptions of social studies topics and designing lessons that advance students' disciplinary thinking and understanding.

Also offered as EDCI350.

0101	Alison Jovanovic	Seats (Total: 15)
	Tu 5:30pm - 8:15pm	ASY 3217

EDCI428 **Field Experience in Secondary Social Studies Teaching**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Practical experience as an aide to a regular social studies teacher; assigned responsibilities and participation in a variety of teaching/learning activities. Students must reserve one full day per week for internship placement.

Co-requisite: EDCI 427. Students must reserve one full day per week for observation.

0101	Alison Jovanovic	Seats (Total: 35)
	Contact instructor or department for details.	

EDCI432 **Issues in the Education of English Language Learners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCI432 or EDCI488Q. Formerly: EDCI488Q.

Introduction to and analysis of current and historical research, practice, trends, and public policy issues in education as they relate to English language learners in K-12 and other settings.

0101	Johanna Tigert TuTh 9:30am - 10:45am	Seats (Total: 25) EDU 3233

EDCI433 **Advanced K-12 World Language Methods and Technology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI410. Corequisite: EDCI438. Restriction: Must be in Secondary Educ: Foreign Languages program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Teaches advanced best practices for effective foreign language instruction. Topics include: using authentic assessment and materials, applying national standards, teaching writing and culture, motivating students, providing strategy instruction, infusing technology, preparing for K-12 employment, and creating a professional portfolio.

EDCI 438 must be taken concurrently with EDCI 433.

0101	Perla Blejer M 5:00pm - 7:45pm	Seats (Total: 10) EDU 2102
IH60	Margaret Ditter, Perla Blejer Tu 5:00pm - 8:00pm *MCert Outreach Program. Registration restricted to program participants*	Seats (Total: 25) Location: TBA

EDCI435 **Teaching English Language Learners Reading and Writing in the Secondary Content Areas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Analysis of approaches to curriculum, current research, theory, and pedagogy of reading and writing to second language students from diverse cultural and linguistic backgrounds. State Approved. Required for TESOL certification program.

0101	Tabitha Kidwell MW 11:00am - 12:15pm	Seats (Total: 25) EDU 2102

EDCI436 **Understanding Cross-Cultural Communication for Teaching English Language Learners**

Credits: 3 Grading Method: Regular General Education: DVCC

Credit only granted for: EDCI436 or EDCI488T. Formerly: EDCI488T.

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Jeff MacSwan	Seats (Total: 25)
	M 1:15pm - 4:00pm	EDU 3233

EDCI437 **English Grammar Pedagogy for Teachers of English Language Learners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCI437 or EDCI488P. Formerly: EDCI488P.

Methods of teaching English grammar to English language learners. The role of teaching grammar. Effective methods and techniques for incorporating grammar in other communication activities.

0101	Denis Sullivan	Seats (Total: 10)
	Tu 5:00pm - 7:45pm	JMZ 0122

EDCI438 **Field Experience in Second Language Education; Field Experience in Second Language Education**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Practical experience as an aide to a regular foreign language teacher; assigned responsibilities and participation in a variety of teaching/learning activities.

EDCI 433 must be taken concurrently with EDCI 438.

0101	Perla Blejer	Seats (Total: 10)
	Contact instructor or department for details.	

EDCI443 **Literature for Children and Youth**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Elementary Education program; or must be a Pre-Education Major.

Analysis of literary materials for children and youth. Timeless and ageless books, and outstanding examples of contemporary publishing. Evaluation of the contributions of individual authors, illustrators and children's book awards.

0101	Melissa Landa W 1:00pm - 3:45pm	Seats (Total: 25) EDU 2212
0301	Margaret Peterson M 1:00pm - 3:45pm	Seats (Total: 23) EDU 2101

EDCI447 **Field Experience in English Teaching**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Corequisite: EDCI467. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as a part-time intern working with a fully licensed English teacher in a diverse school setting. Students must reserve one full day or two half days per week for the part-time internship.

Secondary English/speech/drama education majors only. Students must reserve one full day per week for observation.

0101	Peggy Wilson Contact instructor or department for details.	Seats (Total: 25)

EDCI455 **Teaching and Learning High School Mathematics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have 2 semesters of calculus; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Corequisite: EDCI355. Restriction: Must be in Secondary Educ: Mathematics program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Methods of teaching and assessing the high school mathematics curriculum; aligning tasks and activities to curriculum standards; lesson planning; and selection and use of technology. The course also focuses on managing large group dynamics in the high school mathematics classroom.

Also offered as EDCI350.

0101	Richard Hollenbeck Tu 5:00pm - 7:45pm	Seats (Total: 25) EDU 2121

EDCI457 **Teaching and Learning Middle School Mathematics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department.

Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore EDCI 457 students will be expected to travel to a local middle school for 8-10 of the class meetings.

0101	Alice Cook TuTh 3:00pm - 4:50pm	Seats (Total: 25) EDU 2121
0201	Carolina Napp-Avelli TuTh 3:15pm - 5:05pm	Seats (Total: 25) EDU 2212

EDCI461 **Materials and Instruction for Creating Skilled and Motivated Readers, Part I**

(Perm req)

Credits: 3

Grading Method: Regular

Restriction: Must be in Elementary Education program; and junior standing or higher. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Selecting, evaluating, and using a variety of materials and instructional strategies to create skilled and motivated readers in the elementary grades; Topics include emergent literacy, vocabulary development, reading comprehension and oral reading fluency in diverse classroom settings.

IH60	Jennifer Turner Tu 9:00am - 12:00pm	Seats (Total: 25) Location: TBA

EDCI463 **Reading in the Secondary School**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75; and must be in one of the following programs (Middle School Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and permission of department required for post-baccalaureate students.

Provides secondary school teachers with understanding the need for and approaches to teaching students to read and learn from content area texts.

Also offered as EDCI 661.

0101	Olivia Saracho MW 2:00pm - 3:15pm	Seats (Total: 30) TWS 1100
0201	Olivia Saracho TuTh 2:00pm - 3:15pm	Seats (Total: 30) EDU 1107

EDCI467 **Teaching Writing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: EDCI447. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Examines current theory, research, best practice, curricula and materials for teaching written communication in grades K-12. Focuses on analytical, argumentative, informative/explanatory, literary analysis, narrative, descriptive, and research writing. Emphasizes instructional planning, assessment, writer problem-solving strategies, information search, development, organization and style appropriate to task, purpose and audience for both non-digital and digital text. English Language Learner and special needs pupil issues considered.

0101	Wayne Slater W 5:00pm - 7:45pm	Seats (Total: 30) TYD 1114

EDCI470 **Learning and Teaching in Science**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDCI411; or permission of instructor. Restriction: Must be in Secondary Educ: Science program.

Studies of student learning and instructional practices in science teaching.

0101	Katherine Shirey Tu 5:30pm - 8:00pm	Seats (Total: 20) JMZ 0208

EDCI474 **Teaching Academically, Culturally, and Linguistically Diverse Students in Secondary Education**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Enrolled in internship/certification area. Restriction: Must be in one of the following programs (Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Multi-disciplinary capstone course for Secondary Education majors. Discussion of pedagogical and content issues relevant for teaching academically, culturally, and linguistically diverse students with particular emphasis on students with special educational needs and English language learners. Students develop and use curriculum-based assessments and/or lessons with these groups of students.

0101	Ethan Sewall, Daniel Vivas TuTh 9:15am - 10:00am Contact instructor or department for details.	Seats (Total: 0) JMZ 2117

EDCI475 **Embracing Diversity in the Classroom Community**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Admission to teacher education program; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI475 or EDCI488L. Formerly: EDCI488L.

An exploration of the richness and complexity of student diversity that teacher candidates will encounter in K-12 classrooms. Students will engage in critical reflection around diversity and equity issues.

0101	Andrew Brantlinger Tu 3:30pm - 6:15pm	Seats (Total: 25) SQH 1101

EDCI481 **Student Teaching: Elementary**

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI352, EDCI362, EDCI342, EDCI372, and EDCI322. Corequisite: EDCI464. Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Elementary Education program; and minimum cumulative GPA of 2.75.

Contact department for information to register for this course.

EDCI488B **Selected Topics in Teacher Education; Classroom Management**

Credits: 1 Grading Method: Regular

0101	Margaret Peterson Tu 1:00pm - 2:50pm	Seats (Total: 0) ARC 1101

0201	Susan Denvir W 1:00pm - 2:50pm	Seats (Total: 0) EDU 1121
0301	Tracy Dunheimer Tu 1:00pm - 2:50pm	Seats (Total: 0) EDU 2212

EDCI488D **Selected Topics in Teacher Education; Mathematics and Science Education: Theory and Practice for Learning Assistants**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0101	Chandra Turpen W 5:00pm - 7:45pm	Seats (Total: 20) JMZ 0103

EDCI488M **Selected Topics in Teacher Education; Knowing and Learning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

0101	Lawrence Clark MTh 4:00pm - 5:15pm	Seats (Total: 20) PLS 1164

EDCI488R **Selected Topics in Teacher Education; Language and Literacy Development in Schools and Communities**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Must be an Elementary Education major with a minimum cumulative GPA of 2.75. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the off-campus school experience. All schools require that fingerprinting and background checks. These must be completed, yearly, at an additional cost of approximately $62, prior to the start of the experience.

0101	Daisy Fredricks Tu 9:00am - 11:45am	Seats (Total: 28) EDU 3236
0201	Margaret Jenkins Th 9:00am - 11:45am	Seats (Total: 28) EDU 2212

0301	Leslie Page-Voth M 9:00am - 11:45am	Seats (Total: 28) EDU 1121	

EDCI489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

EDCI489B **Field Experiences in Education; Tutoring**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Must be an Elementary Education major with a minimum cumulative GPA of 2.75. Most schools are within a 20 minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the off-campus school experience. All schools require that fingerprinting and background checks. These must be completed, yearly, at an additional cost of approximately $62, prior to the start of the experience.

0101	Leslie Gettier M 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0102	Leslie Gettier M 12:00pm - 3:00pm	Seats (Total: 20) Location: TBA	Lab
0103	Leslie Gettier Tu 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0104	Leslie Gettier Tu 12:00pm - 3:00pm	Seats (Total: 20) Location: TBA	Lab
0105	Leslie Gettier Tu 3:00pm - 6:00pm	Seats (Total: 20) Location: TBA	Lab
0106	Leslie Gettier W 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0107	Leslie Gettier W 12:00pm - 3:00pm	Seats (Total: 20) Location: TBA	Lab
0108	Leslie Gettier W 3:00pm - 6:00pm	Seats (Total: 20) Location: TBA	Lab

0109	Leslie Gettier Th 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0110	Leslie Gettier Th 12:00pm - 3:00pm	Seats (Total: 20) Location: TBA	Lab
0111	Leslie Gettier Th 3:00pm - 6:00pm	Seats (Total: 20) Location: TBA	Lab
0112	Leslie Gettier F 9:00am - 12:00pm	Seats (Total: 20) Location: TBA	Lab
0113	Leslie Gettier F 12:00pm - 3:00pm	Seats (Total: 20) Location: TBA	Lab

EDCI498 **Special Problems in Teacher Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Individual study of approved problems.

Contact department for information to register for this course.

EDCI602 **The Teaching of Aesthetics in the Public Schools**

Credits: 3 Grading Method: Regular, Audit

Critical investigation of art, and curriculum implications.

0101	Margaret Walker Tu 4:15pm - 7:00pm	Seats (Total: 11) EDU 1315

EDCI603 **Integrated Art Methods**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI680; or EDCI405. Restriction: Must be in a major within EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI423, EDCI603, or EDCI688D. Formerly: EDCI688D.

Builds upon the pedagogical foundation of an initial art education methods course and provides future art teachers with the means for developing PreK-12 art lesson/unit plans for a balanced qualitative art program for today's diverse and inclusive schools/classrooms. Integratin g art with other subject areas.

IH60	Susan Hendricks Th 9:00am - 12:00pm	Seats (Total: 10) EDU 1315

EDCI604 **Learning and Teaching in the Physical Sciences I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Enrollment in an EDCI Outreach Program in science education; or must be in Curriculum and Instruction (Master's) program; or permission of instructor. Credit only granted for: EDCI604 or EDCI688F. Formerly: EDCI688F.

Engagement in laboratory and inquiry-based methods to develop coherent understandings about the physical world and explore issues in the physical sciences. Personal engagements with phenomena and reflection on the learning and instructional experiences.

Contact department for information to register for this course.

EDCI611 **Studying Student Learning in Diverse Settings**

Credits: 3 Grading Method: Regular, Audit

This course deepens teacher understanding of student development and th cultural context for teaching through readings and focused field studies. Participants will also begin developing skills needed for investigations using methods of interpretive inquiry.

IH60	Taharee Jackson Tu 1:00pm - 4:00pm	Seats (Total: 25) Location: TBA
IH61	Alana Murray W 5:30pm - 8:30pm	Seats (Total: 30) JMZ 0125
IH99	Alana Murray W 5:30pm - 8:30pm *CHIN TEED Outreach Program. Registration restricted to program participants.*	Seats (Total: 2) JMZ 0125

EDCI618 **Proseminar for Teaching Internship**

Credits: 1-3 Grading Method: Regular, Audit

Supports and complements candidates' internship experiences. Extends skills in implementing less plans (lesson planning), culturally competent teaching, classroom management, issues of professionalism, and protfolio development.

IH21	Jo Smallwood **Meets August 25, 2015 - December 1, 2015** Tu 1:45pm - 5:00pm	Seats (Total: 15) Location: TBA
	TLPL CITE Program Outreach Offering. Registration restricted to program participants.	

EDCI625 **Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credits: 3 Grading Method: Regular

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

IH60	Ayanna Baccus Class time/details on ELMs	Seats (Total: 30) ONLINE
	TLPL MCERT Program Outreach Offering. Registration is restricted to MCERT Program participants.	
IH61	Ayanna Baccus Class time/details on ELMs	Seats (Total: 30) ONLINE
	TLPL MCERT Program Outreach Offering. Registration is restricted to MCERT Program participants.	

EDCI627 **Secondary Social Studies Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI426; or EDCI680. Credit only granted for: EDCI627 or EDCI788Y. Formerly: EDCI788Y.

The second course in a three-course teaching methods sequence. Addresses two key questions: (1) How do secondary school students think about and learn history/social studies? (2) How can secondary teachers teach history/social studies in ways that promote student learning?

IH60	Catherine McCall Tu 5:30pm - 8:30pm	Seats (Total: 15) Location: TBA

EDCI630 **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

Credits: 3

Grading Method: Regular, Audit

Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.

0101	Jeff MacSwan	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

EDCI631 **Student Assessment in the Second Language Classroom**

Credits: 3

Grading Method: Regular, Audit

Analysis of standardized and teacher-made FL/ESL tests; emphasis on principles of FL/ESL test construction. Field testing of commercial and teacher-made materials.

IH60	Natalia Guzman, Ebony Shockley	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

EDCI633 **Teaching for Cross Cultural Communication**

Credits: 3

Grading Method: Regular, Audit

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Kellie Rolstad	Seats (Total: 20)
	Th 5:00pm - 7:45pm	ASY 3221

EDCI634 **Methods of Teaching ESOL**

Credits: 3

Grading Method: Regular, Audit

This course presents a survey of the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar to translation to audiolingual and communicative approaches. Additionally, successful classroom practices that address the needs of culturally diverse and language minority students will be analyzed.

Hybrid Format

0101	Kellie Rolstad W 5:00pm - 7:45pm	Seats (Total: 20) JMZ 2117

EDCI635 **English Grammar for Teachers of English to Speakers of Other Languages**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

English grammar and methods of teaching grammar for graduate, prospective and current teachers of English to speakers of other languages. Analysis of the major grammatical structures of American English. Discussion of the role of teaching grammar, and effective classroom methods and techniques for the English as a second/foreign language classroom.

0101	Denis Sullivan Tu 5:00pm - 7:45pm	Seats (Total: 15) JMZ 0122

EDCI636 **Teaching ESOL Reading and Writing in the Elementary Classroom Areas**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI634.

Analysis of elementary school classroom culture, social contexts, and instructional strategies which foster language development in elementary school content areas.

0101	Megan Peercy M 5:00pm - 7:45pm	Seats (Total: 20) ASY 3207
IH60	Megan Peercy W 5:00pm - 7:45pm	Seats (Total: 30) Location: TBA

EDCI637 **Internship in World Language/TESOL Education**

Credits: 2-6 Grading Method: Regular, Audit

Prerequisite: EDCI434 and EDCI634; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Additional information: Internship lab fee applies. See current program description for details.

Practical experience as a full-time intern with a fully licensed World Language/TESOL teacher in a diverse school setting; assigned professional responsibilities and participates in teaching/learning experiences.

Contact department for information to register for this course.

EDCI638 **Teaching ESOL Reading and Writing in Secondary Content Areas**

Credits: 3 Grading Method: Regular, Audit

Analysis of approaches to curriculum, current research, theory and pedagogy of reading and writing to second language students from diverse cultural and linguistic backgrounds. Required for TESOL certification.

Contact department for information to register for this course.

EDCI640 **Trends in Secondary School Curriculum: English**

Credits: 3 Grading Method: Regular, Audit

Recent developments in educational thinking and practice on the curriculum in English education.

0101	Wayne Slater M 5:00pm - 7:45pm	Seats (Total: 10) PLS 1184
IH60	Kathleen Travers Tu 5:30pm - 8:30pm	Seats (Total: 25) Location: TBA

EDCI650 **Trends in Mathematics Education**

Credits: 3 Grading Method: Regular, Audit

Recent developments in educational thinking and practice which have affected the curriculum in mathematics.

Contact department for information to register for this course.

EDCI651 **Teaching and Learning Mathematics in Secondary Schools**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Enrollment in a University of Maryland program leading to teacher certification; and bachelor's degree in mathematics or related field; and 2 semesters of calculus.

Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks, technology and other instructional materials; assessment of student learning and other topics pertinent to secondary mathematics education. Internship of other placement in a secondary mathematics classroom is required.

Prerequisite: Permission of department.

IH60	Andrew Brantlinger M 5:30pm - 8:30pm	Seats (Total: 25) Location: TBA

EDCI652 **Teaching and Learning Mathematics in the Elementary School**

Credits: 3 Grading Method: Regular

Prerequisite: MATH212, MATH213, or MATH214; or students who have taken courses with comparable content may contact the department.

Strategies and methodologies for the teaching of elementary school mathematics based on current research and theories about how children learn mathematics. Attention is given to professional recommendations and teaching practices that foster communication, reasoning, and reflection in the mathematics classroom. Internship or other placement in an elementary school is required.

IH60	Hollie Young **Meets August 31, 2015 - December 11, 2015** M 9:00am - 12:00pm	Seats (Total: 25) Location: TBA

EDCI660 **Foundations of Reading**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or EDCI463; or students who have taken courses with comparable content may contact the department.

Broad and comprehensive overview of reading and literacy and factors that may influence effective reading practices such as instruction, classroom environment and individual differences. Focus on different knowledge domains and traditions of inquiry related to reading and reading instruction.

Contact department for information to register for this course.

EDCI661 **Content Area Reading**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or EDCI463; or students who have taken courses with comparable content may contact the department.

Research-based strategies for improving reading to learn in the content areas (K-12).

0101	Ying Alice Zhang Tu 5:00pm - 7:45pm	Seats (Total: 20) KNI 1103

IH17	Patricia Richardson **Meets September 5, 2015 - September 27, 2015** F 6:30pm - 9:30pm Sa 9:00am - 5:00pm Class time/details on ELMs	Seats (Total: 18) Location: TBA Location: TBA ONLINE
	Special Education in Germany Outreach Program. Registration restricted to program participants. Restriction: Department permission required.	
IH99	Ying Alice Zhang Tu 5:00pm - 7:45pm	Seats (Total: 5) Location: TBA
	CHIN TEED Outreach Program. Registration restricted to program participants.	

EDCI662 **Diagnostic Reading Assessment and Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

Survey course in diagnostic reading assessment and instruction for graduate students not majoring in reading.

Contact department for information to register for this course.

EDCI663 **Understanding, Evaluating and Using Research in School Reading Programs**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Focus on understanding, critiquing, and applying reading/literacy research; reviewing research to improve practice; analyzing data at the district, school, classroom, and student levels to improve reading instruction.

0101	Mariam Dreher Th 4:15pm - 7:00pm	Seats (Total: 15) JMZ 1226

EDCI664 **Clinical Assessment in Reading**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI661 and EDCI663; or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Clinical diagnostic techniques and materials for assessing reading strengths and needs.

0101	Ayanna Baccus Tu 4:15pm - 7:00pm	Seats (Total: 20) PLS 1158

EDCI671 **Teaching Science in Elementary Schools**

Credits: 3 Grading Method: Regular, Audit

Identification of problems in teaching science. Methods for improving the effectiveness of science education.

IH60	Diane Ketelhut M 12:30pm - 3:30pm	Seats (Total: 25) Location: TBA

EDCI675 **Learning to Teach and Learn Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI411; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Restriction: Must be in the Maryland Master's Certification program; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI675 or EDCI788V. Formerly: EDCI788V.

Developing practices of instruction in science teaching in the context of understanding student science learning.

IH60	Daniel Levin M 5:30pm - 8:30pm	Seats (Total: 25) Location: TBA

EDCI682 **Reframing Teacher Professionalism: Achieving Teacher Leadership**

Credits: 3 Grading Method: Regular, Audit

Understanding the profession of teaching, teacher leadership, and the knowledge base that undergirds the teaching profession. Multiple perspectives on teaching in the current debate on school reform and how they are aligned across the political spectrum.

0101	David Imig W 4:30pm - 7:00pm	Seats (Total: 20) EDU 2212

EDCI683 **Teaching and Learning Number in the Middle Grades**

Credits: 3

Grading Method: Regular, Audit

Restriction: Admission to M.A or M.Ed. w/ concentration in Mathematics Education; or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Students develop reflective, theoretical perspectives toward and practical approaches for the teaching and learning of the number system in middle school. There is an emphasis on rational numbers and its pedagogical content knowledge.

Contact department for information to register for this course.

EDCI688A **Special Topics in Curriculum and Instruction; Advanced K-12 Foreign Language Methods and Technology**

Credits: 1-3

Grading Method: Regular, Audit

Current topics and issues in teaching.

0101	Perla Blejer M 5:00pm - 7:45pm	Seats (Total: 5) EDU 2102

EDCI688K **Special Topics in Curriculum and Instruction; Methods I: K-12 Foreign Language Methods and Technology**

Credits: 3

Grading Method: Regular, Audit

Current topics and issues in teaching.

0101	Perla Blejer MW 2:00pm - 3:15pm	Seats (Total: 5) EDU 3315
IH99	Perla Blejer **Meets August 31, 2015 - December 15, 2015** MW 2:00pm - 3:15pm *CHIN TEED Outreach Program. Registration restricted to program participants.*	Seats (Total: 5) Location: TBA

EDCI688Z **Special Topics in Curriculum and Instruction; Learning In and Through the Arts**

Credits: 2

Grading Method: Regular, Audit

Current topics and issues in teaching.

Contact department for information to register for this course.

EDCI689 **Teaching Internship**

Credits: 1-9 Grading Method: Regular, Audit

Internship experiences in elementary or secondary teaching with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to graduate teacher education program option.

Student lab fee may apply. Contact program for details.

0101	Perla Blejer Contact instructor or department for details.	Seats (Total: 10)
0201	Daisy Fredricks Contact instructor or department for details.	Seats (Total: 10)
CE01	Karen Rehder Contact instructor or department for details. *EDCI Outreach MCERT. Department permission required.*	Seats (Total: 25)
CE02	Susan Hendricks Contact instructor or department for details. *EDCI Outreach Secondary MCERT-ART. Departmental permission required.*	Seats (Total: 25)
CE03	Peggy Wilson Contact instructor or department for details. *EDCI Outreach Secondary MCERT-ENGLISH. Departmental permission required*	Seats (Total: 25)
CE04	Perla Blejer Contact instructor or department for details. *EDCI Outreach Secondary MCERT-FOREIGN LANGUAGE. Departmental permission required.*	Seats (Total: 25)
CE05	John Seelke Contact instructor or department for details. *EDCI Outreach Secondary MCERT - MATH. Departmental permission required.*	Seats (Total: 25)
CE06	Tranae Johnson Contact instructor or department for details. *EDCI Outreach Secondary MCERT-SCIENCE. Departmental permission required*	Seats (Total: 25)

CE07	Catherine McCall Contact instructor or department for details. *EDCI Outreach Secondary MCERT-SOCIAL STUDIES. Departmental permission required.*	Seats (Total: 25)
CE08	Daisy Fredricks Contact instructor or department for details. *EDCI Outreach Secondary MCERT-TESOL. Departmental permission required.*	Seats (Total: 25)
CE09	Stacy Pritchett Contact instructor or department for details. *MCERT Outreach Offering. Department permission required.*	Seats (Total: 15)
IH62	Instructor: TBA	Seats (Total: 1)
IS11	Stacy Pritchett **Meets August 31, 2015 - December 9, 2015** Tu 5:30pm - 8:30pm *MSMaRT Outreach Program. Registration restricted to program participants.*	Seats (Total: 11) Location: TBA

EDCI691 **Models of Teaching: Theories and Applications**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

Theory and research on teaching as applied to models of instruction. Practice in developing an initial repertoire of teaching models and in providing thoughtful critique of teaching based on these models.

IH21	Jo Smallwood **Meets August 27, 2015 - December 12, 2015** W 5:00pm - 8:00pm *CITE Outreach Program. Registration restricted to program participants.*	Seats (Total: 19) Location: TBA

EDCI697 **Embracing Diversity in Classroom Communities**

Credits: 3 Grading Method: Regular, Audit

The course aims to help students understand race, class, gender, and sexuality as systems of privilege, exclusion, marginalization, and the centrality of embracing diversity in the classroom communities to promote the success of all students.

0101	Tara Brown Tu 5:00pm - 7:45pm	Seats (Total: 25) JMZ 3203

EDCI698 **Conducting Research on Teaching**

(Perm req)

Credits: 1-3 Grading Method: Regular

Application of the knowledge base on effective teaching to the analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project.

0101	Saroja Barnes Th 5:00pm - 7:45pm	Seats (Total: 20) EDU 2121
IH60	Joseph McCaleb Tu 4:30pm - 7:45pm	Seats (Total: 30) Location: TBA
IH61	Kathleen Travers Sa 9:00am - 1:00pm	Seats (Total: 30) Location: TBA
IH62	James McGinnis Sa 9:00am - 1:00pm	Seats (Total: 30) Location: TBA
IH63	Daisy Fredricks Sa 9:00am - 1:00pm	Seats (Total: 30) TYD 0101
IH64	Emily Yanisko, Ebony Shockley Sa 9:00am - 1:00pm	Seats (Total: 30) JMZ 2207

EDCI732 **Second Language Acquisition**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

Major theoretical approaches to second language acquisition. For teaching English to speakers of other languages (TESOL).

0101	Drew Fagan Th 5:00pm - 7:45pm	Seats (Total: 25) EDU 3236

EDCI751 **Theory and Research on Mathematical and Scientific Thinking and Learning**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Admitted to Doctoral Program in Mathematics Education or Science Education; or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Study of mathematical and scientific thinking by students at various levels of schooling considered from the perspective of those classic and contemporary theories of learning that are particularly relevant to the study of mathematics and science. Exploration of what it means to understand mathematics and science.

0101	Janet Walkoe M 4:15pm - 7:00pm	Seats (Total: 20) EDU 2121

EDCI758 **Research Seminar in Mathematics and Science Education**

Credits: 1 Grading Method: Regular, Audit

Read, plan, conduct, and report on research projects and research topics in mathematics and science education. Projects may be faculty/student projects, or group or individual student projects (may or may not be related to a dissertation). Emphasis on framing researchable questions and designing/analyzing research studies. Faculty and peer feedback and interaction are crucial expectations.

0101	Patricia Campbell F 10:00am - 1:30pm	Seats (Total: 20) EDU 2121

EDCI776 **Urban Education**

Credits: 3 Grading Method: Regular, Audit

This seminar provides students with a broad overview of urban education as a field of inquiry by examining the social context of urban schools, how transformative pedagogy is practiced and conceptualized as well as school reform.

0101	Tara Brown Th 4:15pm - 7:00pm	Seats (Total: 20) SQH 1121

EDCI788 **Selected Topics in Teacher Education; Selected Topics in Teacher Education**

Credits: 1-3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

Contact department for information to register for this course.

EDCI788C **Selected Topics in Teacher Education; Foundations of Literacy Research**

Credits: 3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	John O'Flahavan M 4:15pm - 7:00pm	Seats (Total: 20) EDU 3236

EDCI788R **Selected Topics in Teacher Education; Applied Linguistics Doctoral Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	Megan Peercy M 1:00pm - 2:15pm	Seats (Total: 20) TYD 2102

EDCI788Y **Selected Topics in Teacher Education; Foundations of Mathematics**

Credits: 1-3 Grading Method: Regular, Audit

Current topics and issues in teacher education.

0101	Daniel Chazan Tu 11:00am - 12:15pm	Seats (Total: 20) SQH 1123

EDCI791 **Qualitative Research I: Design and Fieldwork**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI790. Formerly: EDCI684.

Builds on EDCI790 to examine in more depth the theoretical and epistemological moorings of different types of qualitative research. Students apply selected field research methods to problems of professional practice in schools and communities while considering central issues and dilemmas that arise while engaging in fieldwork.

0101	Jennifer Turner	Seats (Total: 20)
	W 4:30pm - 7:15pm	EDU 2101

EDCI798 **Special Problems in Teacher Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Intended for Masters, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDCI798A **Special Problems in Teacher Education; Revisioning Teacher Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Intended for Masters, AGS, or doctoral students in education who desire to pursue a research problem.

Prerequisite: permission of instructor. Meets on the 1st Wednesday of each month (September - December).

0101	David Imig, Linda Valli	Seats (Total: 15)
	W 11:15am - 2:50pm	EDU 2212A

EDCI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDCI888 **Apprenticeship in Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCI889 **Internship in Education**

(Perm req)

Credits: 3-8

Grading Method: Regular, Audit

Internship experiences with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCI898 **Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EDCI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

EDCP Education Counseling and Personnel Services Fall 2015

All sections of EDCP 108, except EDCP 108D, 108J and 108R are closed to Seniors.

EDCP108B **College and Career Advancement: Concepts and Skills; Academic Success Strategies**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

0101	Shirley Browner **Meets September 10, 2015 - December 3, 2015** Th 2:00pm - 3:20pm	Seats (Total: 25) HBK 0103
0401	Katie Koo **Meets September 8, 2015 - December 1, 2015** Class time/details on ELMs	Seats (Total: 25) ONLINE

EDCP108C **College and Career Advancement: Concepts and Skills; Choosing a Major**

Credits: 1

Grading Method: Regular

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Recommended for freshman and sophomores needing to choose or clarify an academic major. Juniors by permission of instructors. All sections of EDCP108, except EDCP108D, EDCP108J, and EDCP108R are closed to Seniors.

0101	Carlton Green **Meets September 14, 2015 - November 22, 2015** M 3:00pm - 4:50pm	Seats (Total: 20) LEF 1201
0201	Yvonne Oslin **Meets September 3, 2015 - November 5, 2015** Th 10:00am - 11:50am *Students in the Syn*Quest program should enroll in section 0201.*	Seats (Total: 20) OAK 0318

EDCP108G **College and Career Advancement: Concepts and Skills; The Transfer Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

0101	Beverly Greenfeig **Meets September 9, 2015 - November 18, 2015** W 2:00pm - 3:30pm	Seats (Total: 25) ASY 3203

EDCP108M **College and Career Advancement: Concepts and Skills; Math Study Skills and Building Confidence**

(Perm req)

Credits: 1 Grading Method: Regular

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

An Online course recommended for students enrolled in a math class and needing math study skills and confidence building. Course registration is restricted to freshman and sophomore students. Other students may request enrollment with permission from the instructor and only if seats are available. Once registered, please check your email for information about the first class meeting.

0101	Mark Montgomery **Meets September 14, 2015 - November 23, 2015** Class time/details on ELMs	Seats (Total: 20) ONLINE

EDCP108N **College and Career Advancement: Concepts and Skills; Diversity Issues and Academic Strategies for Success**

Credits: 1 Grading Method: Regular

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

0101	Solomon Comissiong, Ronald Zeigler M 10:00am - 11:00am	Seats (Total: 25) NCC 0120

EDCP220 **Introduction to Human Diversity in Social Institutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DVUP

This highly-interactive format focuses on individual and social identities in the U.S., group differences and intergroup relations, systems of privilege and oppression, and advocacy for social justice. Topics will include diversity related to race, ethnicity, gender, sexual orientation, social class, (dis)ability, and religion. Course fulfills CORE requirements in diversity, social/behavioral bases, and interdisciplinary study. Some sections restricted.

0101	Blakely Mulder TuTh 3:30pm - 4:45pm	Seats (Total: 25) SYM 0215
0201	Jeffrey Yeung MW 9:30am - 10:45am	Seats (Total: 25) TYD 1118

EDCP298 **Special Problems in Counseling and Personnel Services**

Credits: 1-3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP298Z **Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context**

Credits: 3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP310 **Peer Counseling Theory and Skills**

Credits: 3 Grading Method: Regular

The theories and skills of peer helping relationships. Counseling theories and skills at a level appropriate for students seeking basic level training for use in peer counseling settings.

0101	Tae Hyuk Keum TuTh 11:00am - 12:15pm	Seats (Total: 25) SQH 1121
0201	Elizabeth Reeves MW 9:30am - 10:45am	Seats (Total: 25) TWS 0214
0301	Antoinette Goldthrite TuTh 2:00pm - 3:15pm	Seats (Total: 25) SQH 1123
0401	Yun Lu TuTh 11:00am - 12:15pm	Seats (Total: 25) EDU 3233
0501	Glenn Ireland MW 11:00am - 12:15pm	Seats (Total: 25) EDU 3233

EDCP386 **Experiential Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Special EDCP form required.

Contact department for information to register for this course.

EDCP489 **Field Experiences in Counseling and Personnel Services**

(Perm req)

Credits: 1-4 Grading Method: Regular General Education: DVUP

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDCP498 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-3 Grading Method: Regular

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP499L **Workshops, Clinics, Institutes; Preparation to Lead Relationship Skills Workshops**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the Department of Counseling and Personnel Services (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing; clinical experiences in counseling and testing centers, reading clinics, speech therapy laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups.

0201	Patricia Mielke	Seats (Total: 25)
	Contact instructor or department for details.	

EDCP610 **Professional Orientation**

Credits: 3

Grading Method: Regular, Audit

Survey of knowledge base and practices in counseling and personnel services specializations, professional ethics, credentialling relevant legislation, current issues.

For Student Affairs students only.

0101	Michelle Espino	Seats (Total: 20)
	W 1:00pm - 3:45pm	EDU 3233
	Limited to Student Affairs graduate students.	
0201	Natasha Mitchell	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2119
	Limited to School Counseling Students.	

EDCP616 **Counseling II: Theory and Practice**

Credits: 3

Grading Method: Regular, Audit

Corequisite: EDCP618.

Counseling theories and the practices which stem from such theories.

For EDCP majors only.

0101	Ellen Fabian Tu 4:15pm - 7:00pm *Limited to Students in the Masters Program.*	Seats (Total: 40) TYD 1132

EDCP618 **Counseling Skills: Introduction to Practicum**

Credits: 1-6 Grading Method: Regular

Development and utilization of counseling skills.

0101	Mary Ann Hoffman Tu 7:00pm - 9:00pm *Limited to Student Affairs graduate studemts. Register for 3 credits.*	Seats (Total: 10) EDU 2119
0201	Mary Ann Hoffman Tu 7:00pm - 9:00pm	Seats (Total: 10) EDU 2102
0301	Mary Ann Hoffman Tu 7:00pm - 9:00pm	Seats (Total: 10) EDU 2101

EDCP619B **Practicum in Counseling**

Credits: 3 Grading Method: Regular, Audit

Sequence of supervised counseling experiences of increasing complexity. Limited to eight applicants in advance. Two hours class plus laboratory.

0101	Sharon Kirkland-Gordon Th 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 10) SHM 1106

EDCP632 **Cognitive Assessment**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of EDUC-Counseling, Higher Education and Special Education department.

Assessment of cognitive functioning of children and adolescents in reference to school learning and behavior problems. Administering, scoring and interpreting cognitive assessment instruments commonly used in school systems.

0101	Jill Jacobson W 9:00am - 11:45am	Seats (Total: 10) EDU 1315

EDCP640 **School Psychology Seminar: Overview of the Specialty**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of instructor.

Overviews the specialty of school psychology, including history of the specialty, roles and functions of school psychologists, and current professional issues related to the specialty.

0101	William Strein M 9:00am - 10:45am	Seats (Total: 10) EDU 2101

EDCP641 **School Psychology Seminar: Professional Ethics**

Credits: 1-2 Grading Method: Regular, Audit

Restriction: Must be in the School Psychology program; or permission of instructor.

Overviews ethical issues in the specialty of school psychology.

0101	William Strein M 10:45am - 11:45am	Seats (Total: 5) EDU 2101

EDCP651 **Group Counseling in Schools**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP616; and for school counseling and school psychology students only. Restriction: Permission of instructor.

Issues and techniques of group counseling in schools.

0101	Richard Shin W 4:15pm - 7:00pm	Seats (Total: 20) EDU 3236

EDCP652 **Research in Counseling**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the School Counseling program. Credit only granted for: EDCP652 or EDCP789Y. Formerly: EDCP789Y.

An exploration of basic and applied research, program evaluation, and associated measurement and evaluation skills crucial for professional school counselors.

0101	Paul Gold	Seats (Total: 15)
	Tu 4:15pm - 7:00pm	EDU 2101

EDCP668A **Special Topics in Rehabilitation; Job Development and Placement**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDCP671 **Intergroup Dialogue Facilitation Practicum**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP616, EDCP618, and EDCP771; or permission of instructor. Restriction: Limited to college student personnel students only. Credit only granted for: EDCP498L or EDCP671. Formerly: EDCP498L.

Developing knowledge and skills for facilitating intergroup dialogues. Using the principles and content of intergroup dialogues to create scenarios for the practice of listening, understanding, and taking action under theories of social justice.

0101	Kimberly Griffin	Seats (Total: 10)
	Tu 4:15pm - 7:00pm	TYD 2111

EDCP682 **Counseling Psychology Didactic Practicum in Group Interventions**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC682. Formerly: EDCP718.

In depth examination of theories and techniques of group interventions; supervised experience in group counseling.

0101	Dennis Kivlighan	Seats (Total: 10)
	Th 1:00pm - 4:00pm	EDU 2102

EDCP685 **Counseling Psychology Didactic Practicum in Counseling Supervision**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC685. Formerly: EDCP745.

In depth examinatin of theories and techniques of counseling supervision, supervised experience in the process of supervising counselors.

0101	Mary Ann Hoffman	Seats (Total: 10)
	W 10:00am - 12:45pm	HBK 0105

EDCP692 Assessment in Counseling Psychology I

Credits: 3 Grading Method: Regular

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC692. Formerly: EDCP789F.

Broad introduction to the construction of psychological tests and measures, and experience in test interpretation, with consideration of historical, legal, ethical, and cultural issues surrounding the assessment process.

Students must pay a $36.00 materials fee.

0101	Matthew Miller	Seats (Total: 20)
	M 1:00pm - 4:00pm	EDU 3236

EDCP697 Multicultural Issues in Counseling Psychology

Credits: 3 Grading Method: Regular

Prerequisite: Only open to Counseling Psychology majors. Also offered as: PSYC697. Credit only granted for: EDCP697, EDCP699, or PSYC697. Formerly: EDCP699.

Exploration of knowledge, attitudes and skills for providing counseling and psychological services to culturally diverse populations.

0101	Richard Shin	Seats (Total: 10)
	Tu 4:15pm - 7:00pm	KEY 0125

EDCP738 Practicum in Child Assessment

Credits: 3 Grading Method: Regular, Audit

Administration of complete test batteries to children; supervision of initial interviews; test administration and scoring; interpretation and synthesis of test battery and interview material; the psychological report; verbal interpretation of test results; and recommendations. Taken initially with EDCP 633; repeated with EDCP 634 in the subsequent semester.

0101	Jill Jacobson	Seats (Total: 10)
	Th 9:00am - 12:15pm	Location: TBA

EDCP741 **Multicultural Practice in Student Affairs: Self, Education, and Society**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP771. Credit only granted for: EDCP741 or EDCP789Z. Formerly: EDCP789Z.

Develop knowledge and skills in the area of multicultural practice in student affairs through the examination of oppression, power, and privilege and how these dynamics impact individuals, educational institutions, and societies.

0101	Julie Park	Seats (Total: 20)
	Th 3:15pm - 6:00pm	ASY 3219

EDCP745 **Supervision of Counseling**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and must be in a major within EDUC-Counseling, Higher Education and Special Education department.

Survey of knowledge base, research approaches, and applied skills in supervision of counseling.

0101	Cixin Wang	Seats (Total: 10)
	W 10:00am - 12:45pm	PLS 1162

EDCP772 **Research in Student Affairs**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP656; or permission of instructor. Restriction: Must be in the College Student Personnel program.

Research designs and approaches to research in student development and higher education. Development of research for research competency or dissertation proposal.

0101	Julie Park Th 9:00am - 11:45am	Seats (Total: 10) JMZ 1123

EDCP774 **Advanced Seminar in Theories of College Student Development**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EDCP771; or students who have taken courses with comparable content may contact the department.

An opportunity for in-depth study, dialogue, and reflection about theoretical frameworks for understanding the development of college students. Specific attention is given to enhancing knowledge and understanding of the development of students when social identities and their intersections are considered.

0101	Kimberly Griffin Tu 7:00pm - 9:45pm	Seats (Total: 15) TYD 1114

EDCP789Q **Advanced Topics in Counseling and Personnel Services; Developmental Psychopathology**

Credits: 3

Grading Method: Regular, Audit

0101	Hedwig Teglasi W 9:30am - 12:15pm	Seats (Total: 10) EDU 2101

EDCP789R **Advanced Topics in Counseling and Personnel Services; College Teaching Seminar**

Credits: 1-3

Grading Method: Regular, Audit

0101	Michelle Espino Contact instructor or department for details.	Seats (Total: 10)

EDCP789X **Advanced Topics in Counseling and Personnel Services; Lifespan Development**

Credits: 3

Grading Method: Regular, Audit

0101	Paul Gold Th 4:15pm - 7:00pm	Seats (Total: 20) EDU 2101

EDCP789Z **Advanced Topics in Counseling and Personnel Services**

Credits: 1-6 Grading Method: Regular, Audit

0101	Colleen O'Neal Tu 10:00am - 12:45pm	Seats (Total: 10) JMZ 1123

EDCP798 **Special Problems in Counseling and Personnel Services**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP798A **Special Problems in Counseling and Personnel Services; Research Design and Proposal Writing Seminar**

Credits: 3 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

0101	Michelle Espino W 9:00am - 11:45am	Seats (Total: 15) EDU 3236

EDCP798P **Special Problems in Counseling and Personnel Services; Seminar Paper**

Credits: 1-6 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP799A **Master's Thesis Research; Research Design and Proposal Writing Seminar**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Registration required to the extent of six hours for Master's thesis.

0101	Michelle Espino	Seats (Total: 10)
	W 9:00am - 11:45am	EDU 3236

EDCP870 **Professional Issues Seminar**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCP656 or EDCP870. Formerly: EDCP656.

Examination of issues that bear on professional issues such as ethics, inter-professional relationships and research.

0101	KerryAnn O'Meara	Seats (Total: 10)
	M 4:15pm - 7:00pm	SQH 1105
	Only open to HESI Doctoral students.	

EDCP871 **Student Affairs Doctoral Capstone Seminar**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCP870; or permission of instructor. Restriction: Must be in the College Student Personnel program. Credit only granted for: EDCP789I or EDCP871. Formerly: EDCP789I.

Broadening perspectives on issues in student affairs and higher education by exploring the multiple roles and responsibilities of campus administrators and faculty members.

0101	Mary Hummel	Seats (Total: 8)
	W 2:00pm - 4:45pm	MIT 2113

EDCP888 **Apprenticeship in Counseling and Personnel Services**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	John Zacker	Seats (Total: 10)
	Contact instructor or department for details.	

EDCP888C **Apprenticeship in Counseling and Personnel Services; School Psychology**

Credits: 1-8 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Jill Jacobson	Seats (Total: 15)
	M 1:00pm - 2:50pm	LEF 2208
0201	Hedwig Teglasi	Seats (Total: 15)
	Contact instructor or department for details.	

EDCP888G **Apprenticeship in Counseling and Personnel Services; School Counseling**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Natasha Mitchell	Seats (Total: 15)
	M 7:00pm - 9:45pm	EDU 3233

EDCP889 **Internship in Counseling and Personnel Services; Internship in Counseling and Personnel Services**

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD Education, Human Development Fall 2015

EDHD210 **Foundations of Early Childhood Education**

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHS

Corequisite: EDSP211.

Students explore historical and current research in early childhood education, primary models of curriculum and pedagogy in the field, and the relationship between critical aspects of young children's development and the creation of inclusive learning opportunities for all children, including children at risk. The concept of developmentally appropriate practice and its application across different developmental levels and early childhood classrooms will be introduced and connected with discussion in EDHD220 and EDSP211. Students examine issues in developing and implementing high quality early childhood education experiences for young children with and without disabilities, including the influence of family, culture, and community, the needs of children at risk (e.g., poverty, immigrant status, English Language Learners), and the role of assessment in early learning.

Intended primarily for students planning to apply to the Early Childhood Education program.

0101	Elisa Klein	Seats (Total: 28)
	M 1:00pm - 3:45pm	EDU 1315

EDHD220 **Exploring Early Childhood General and Special Education**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Students who are considering a career in education will consider information about the teaching profession. Students reflect on their personal strengths, identify areas of growth, and examine their predisposition to work with young children with and without disabilities. They will discuss the nature of teaching, the moral and philosophic underpinnings that influenced their decision to enter into the teaching professions, as well as the roles and responsibilities of teachers and the characteristics and qualities for effective teachers (teaching styles and teacher's primary role in the classroom).

Intended primarily for students planning to apply to the Early Childhood Education Program. Allow an appropriate amount of time to travel from your on-campus class meetings to your off-campus experience.

0101	Christy Tirrell-Corbin Tu 2:00pm - 4:00pm M 8:00am - 12:00pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab
0102	Christy Tirrell-Corbin Tu 2:00pm - 4:00pm Tu 8:00am - 12:00pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab
0103	Christy Tirrell-Corbin Tu 2:00pm - 4:00pm W 8:00am - 12:00pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab
0104	Christy Tirrell-Corbin Tu 2:00pm - 4:00pm Th 8:00am - 12:00pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab
0105	Christy Tirrell-Corbin Tu 2:00pm - 4:00pm F 8:00am - 12:00pm	Seats (Total: 5) EDU 2102 Location: TBA	Lab

EDHD221 **Aggression and Violence in Everyday Life: Can Violence Be Prevented?**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

History of aggression and violence in the world and in the United States. Examines the extent to which various forms are prevalent today and scientifically supported prevention strategies. Methods of studying aggression are reviewed, as are theories and methods of preventing aggression and violence.

0101	Robert Marcus Th 4:15pm - 7:00pm	Seats (Total: 60) SQH 1120

EDHD230 **Human Development and Societal Institutions**

Credits: 3 | Grading Method: Regular, Audit | CORE: SB, D | General Education: DSHS, DVUP

Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.

0101	Allison Meisch TuTh 11:00am - 12:15pm	Seats (Total: 45) EDU 3315
0201	Doireann Hobbs MW 9:30am - 10:45am	Seats (Total: 45) TYD 0102

EDHD231 **Inside 21st Century Creativity: How Creative Ideas, Concepts, and Products are Generated**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Mechanisms of the creative mind. Psychological, social, sociological, developmental, cultural, educational, genetic and neural based roots of creativity.

0101	Kevin Dunbar TuTh 3:30pm - 4:45pm	Seats (Total: 60) TYD 1101

EDHD306 **Research Methods in Human Development**

Credits: 3 Grading Method: Regular General Education: FSAR

Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.

0101	Sophie Jablansky TuTh 9:30am - 10:45am	Seats (Total: 40) TYD 2110

EDHD314 **Reading in Early Childhood Classroom: Instructions and Materials Part I**

Credits: 3 Grading Method: Regular

Restriction: Must be in Early Childhood Education program.

This course introduces early childhood students to current research and methods on teaching reading.

0101	Donald Bolger Th 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 25) EDU 3233

EDHD315 **Reading in Early Childhood Classroom: Instruction and Materials Part II**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: EDHD314. Restriction: Must be in Early Childhood Education program.

This course builds on the theories and teaching strategies of EDHD314. Students will focus on teaching of reading and writing to primary grade students.

0101	Virginia Knopf W 4:15pm - 6:15pm Contact instructor or department for details.	Seats (Total: 25) EDU 2121

EDHD319 Selected Topics in Human Development

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human development in relation to contemporary culture.

Contact department for information to register for this course.

EDHD320 Human Development Through the Life Span

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.

0101	Jeeyoung Noh MW 11:00am - 12:15pm	Seats (Total: 45) TYD 0111
0201	Jennie Lee-Kim MW 12:30pm - 1:45pm	Seats (Total: 45) EDU 3315
0401	Brandee Feola MW 9:00am - 10:15am	Seats (Total: 45) EDU 2119
0501	Robert Marcus Tu 4:15pm - 7:00pm *Restricted to pre-nursing majors. Deparment permission required.*	Seats (Total: 40) EDU 1107

EDHD321 The Young Child as Scientist

(Perm req) Credits: 2 Grading Method: Regular

Prerequisite: EDHD419, EDHD314, EDHD313, EDHD424, and EDSP470. Corequisite: EDHD323, EDHD322, EDHD315, EDHD435, and EDHD427. Restriction: Must be in Early Childhood Education program; and senior standing or higher.

Provides theoretical and practical knowledge for teaching science in early childhood classrooms. Appropriate teaching strategies and materials of instruction are presented for diverse settings. Includes field experience.

0101	Susan Klauda	Seats (Total: 25)
	M 9:00am - 10:30am Contact instructor or department for details.	EDU 1107

EDHD322 **The Young Child as Mathematician**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDHD419, EDHD314, EDHD313, EDHD424, and EDSP470. Corequisite: EDHD323, EDHD322, EDHD315, EDHD435, and EDHD427. Restriction: Must be in Early Childhood Education program; and senior standing or higher.

Engages early childhood education majors in mathematics as a creative process and dynamic way of thinking. Throughout this process students will acquire the pedagogical knowledge important to teaching mathematics in grades pre-K through 3. Includes field experience.

0101	Geetha Ramani	Seats (Total: 25)
	W 2:00pm - 4:00pm Contact instructor or department for details.	EDU 1107

EDHD323 **Children Study Their World**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: EDHD419, EDHD314, EDHD313, EDHD424, and EDSP470. Corequisite: EDHD322, EDHD315, EDHD321, EDHD435, and EDHD427. Restriction: Must be in Early Childhood Education program; and senior standing or higher.

Provides a theoretical framework for pre-service teachers to understand and implement a developmentally appropriate social studies curriculum. The focus will be on methods of implementing theories of child development and curriculum, which foster higher level thinking skills in young children. Includes field experience.

0101	Elisa Klein	Seats (Total: 25)
	W 11:15am - 12:45pm Contact instructor or department for details.	HBK 1108

EDHD386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department; and junior standing or higher.

Contact department for information to register for this course.

EDHD400 **Introduction to Gerontology**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Multidisciplinary survey of the processes of aging. Physiological changes, cultural forces, and self-processes that bear on quality of life in later years. Field study of programs, institutions for elderly, individual elders, their families and care providers.

0101	Elizabeth Robertson-Tchabo TuTh 9:30am - 10:45am	Seats (Total: 40) SQH 1101
0201	Elizabeth Robertson-Tchabo TuTh 11:00am - 12:15pm	Seats (Total: 40) SQH 1119
0301	Elizabeth Robertson-Tchabo Tu 4:15pm - 7:00pm	Seats (Total: 30) EDU 1121

EDHD411 **Child Growth and Development**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

0101	Jennie Lee-Kim Th 1:00pm - 3:45pm	Seats (Total: 36) LEF 2166
0201	Lucas Butler Tu 1:00pm - 3:45pm	Seats (Total: 40) EDU 3315
0301	Jennie Lee-Kim Th 9:30am - 12:15pm	Seats (Total: 32) EDU 2119

EDHD412 **Infant Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Infant development across domains, including perceptual, motor, cognitive, language, social and emotional functioning from pre-natal through third year of life.

0101	Brenda Jones Harden MW 11:00am - 12:15pm	Seats (Total: 40) EDU 3315

EDHD413 Adolescent Development

Credits: 3 | Grading Method: Regular | General Education: DSHS

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

Restricted to Education majors only with the following major codes: 0802L, 0802P, 0823L, 0823P, 0831L, 0831P, 0832L, 0832P, 0833L, 0833P, 0834L, 0834P, 0840L, 0840P, 0841L, 0841P, 0842L, 0842P, 0843L, 0843P, 0844P, 08320, 0804L and 0804P.

0101	Allan Wigfield TuTh 11:00am - 12:15pm	Seats (Total: 40) EDU 1107
0201	Ann Battle Tu 9:30am - 12:15pm	Seats (Total: 40) EDU 2119

EDHD414 Development of the Scientific Mind Across the Lifespan

Credits: 3 | Grading Method: Regular

Recommended: EDHD320.

Study of the educational, cognitive, social, and cultural factors that underlie the development of the scientific mind across the lifespan.

0101	Kevin Dunbar TuTh 9:30am - 10:45am	Seats (Total: 40) EDU 1107

EDHD425 Language Development and Reading Acquisition

Credits: 3 | Grading Method: Regular, Audit

This course focuses on young children's language development and the relationship between language and reading acquisition. Students will learn: concepts central to language development; language achievements at different ages; concepts of emergent literacy; models of reading acquisition and skilled reading.

Section 0101 is restricted to Early Childhood education majors, major code 0823P, 0823L only.

0101	Alexa Romberg	Seats (Total: 25)
	Tu 1:00pm - 3:45pm	EDU 3233

EDHD426 **Cognition and Motivation in Reading: Reading in Content Areas I**

Credits: 3 Grading Method: Regular

Students preparing for secondary teaching will learn the cognitive and motivational aspects of reading and learning from text in subjects of literature, science, history and mathematics. Different structured approaches to using text for content learning are presented. Classroom contexts that enable students to engage productively with diverse texts and internet resources are identified.

Restriction: Must be a Secondary Education major.

0101	Daphne Williams	Seats (Total: 45)
	M 5:00pm - 7:45pm	EDU 3315

EDHD427 **Constructing and Integrating the Early Childhood Curriculum**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDHD314, EDHD313, EDHD424, and EDSP470. Corequisite: EDHD323, EDHD322, EDHD315, EDHD321, and EDHD435. Restriction: Must be in Early Childhood Education program; and senior standing.

Explores the world from the child's perspective and constructs curriculum based on cognition, learning, and children's experiences. The integrated curriculum is the overarching framework for this course. Includes field experience.

0101	Brenda Jones Harden	Seats (Total: 25)
	M 2:00pm - 4:00pm Contact instructor or department for details.	EDU 1121

EDHD430 **Adolescent Violence**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Examines the roots of violence among adolescents and the extent to which this constitutes a problem in various settings. Research studies on its origins, prevention and intervention and implications for social policy are examined.

0101	Robert Marcus	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	EDU 2119

EDHD435 **Effective Components of the Early Childhood Classroom**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDHD419, EDHD314, EDHD313, EDHD424, and EDSP470. Corequisite: EDHD323, EDHD322, EDHD315, EDHD321, and EDHD427. Restriction: Must be in Early Childhood Education program; and senior standing or higher.

Explores three topics integral to effective, child-centered early childhood classrooms: assessment, classroom management and parent involvement. Includes field experience.

0101	Christy Tirrell-Corbin	Seats (Total: 25)
	M 11:00am - 1:00pm Contact instructor or department for details.	ASY 3221

EDHD460 **Educational Psychology**

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Application of psychology to learning processes and theories. Individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings.

0101	Patricia Alexander	Seats (Total: 45)
	MW 11:00am - 12:15pm	ASY 3203

EDHD489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHD498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHD498W **Special Problems in Education; Social Wariness and Anxiety in Childhood**

(Perm req)

Credits: 3 Grading Method: Regular

Available only to students who have definite plans for individual study of approved problems.

0101	Kenneth Rubin	Seats (Total: 12)
	Contact instructor or department for details.	

EDHD600 **Introduction to Human Development and Child Study**

Credits: 3 Grading Method: Regular

An overview of the multidisciplinary, scientific principles which describe human development and behavior and an application of these principles in an analysis of a behavioral record. Techniques of observation, recording, and analysis of human behavior. Emphasis on critiquing and applying research findings.

Contact department for information to register for this course.

EDHD617 **Achievement Motivation in Adolescence**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHD779W or EDHD617. Formerly: EDHD779W.

Study of different aspects of motivation and how they develop in the secondary school years. Focus on how different instructional practices influence motivation and design of various strategies for improving students motivation.

Contact department for information to register for this course.

EDHD629 **Seminar for the Center for Children, Relationships, and Culture**

Credits: 1 Grading Method: Regular, Audit

A seminar and colloquia series featuring speakers from the department, the college, the university, and other universities and institutions from across the world that aims to cover issues pertaining to contemporary theory and research in human development.

0101	Lucas Butler	Seats (Total: 20)
	Meets August 31, 2015 - December 11, 2015	
	W 11:15am - 1:45pm	EDU 1107

EDHD662 **Research Methods in Education Settings**

Credits: 3 Grading Method: Regular, Audit

Research methods associated with studying the development, achievement, and school adjustment of children and adolescents in educational settings, with an emphasis on quantitative methodologies.

Contact department for information to register for this course.

EDHD690 **History and Systems in Human Development**

Credits: 3 Grading Method: Regular

History of the field of human development; philosophical basis of major theoretical paradigms and contemporary research drawn from foundational traditions.

0101	Lucas Butler	Seats (Total: 17)
	M 4:15pm - 7:00pm	EDU 1315

EDHD692 **Cognitive Basis of Instruction**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.

Psychological and educational research literature on human cognition, especially as applied to learning and teaching in classroom settings.

Contact department for information to register for this course.

EDHD718 **Apprenticeship in College Teaching; Apprenticeship in College Teaching**

(Perm req)

Credits: 1 Grading Method: Regular

For graduate students teaching autonomously for the first, second, or third tiem at the University of Maryland, College Park; not intended for teaching assistants. This course provides graduate student teachers with a set of structured experiences that foster professional growth and development in the role of college instructor. Includes seminars on the scholarship of college teaching and principles of optimal college classroom environments, peer and faculty in-class observations of teaching, and guided reflective analysis of experience in the classroom.

0101	Ann Battle	Seats (Total: 10)
	F 1:00pm - 3:30pm	EDU 3233

EDHD720 **Social Development and Socialization Processes**

Credits: 3 Grading Method: Regular, Audit

This course covers social development and socialization processes acros the life-span. The course typically covers the following topics: parent-child relationships, peer relationships, moral development, social cognition, social competence, social motivation, self-regulation, and cultural influences on development. This is core doctoral course.

0101	Melanie Killen	Seats (Total: 20)
	Tu 1:00pm - 3:45pm	EDU 3236

EDHD721 **Cognitive Development and Learning: An Introduction**

Credits: 3 Grading Method: Regular, Audit

Introductory survey into contemporary theory and research in cognitive development; applications to classroom learning.

0101	Geetha Ramani	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 3236

EDHD760 **Advanced Educational Psychology**

Credits: 3 Grading Method: Regular

Prerequisite: Prior course in educational psychology, learning, or cognition; or permission of EDUC-Human Development and Quantitative Methodology department.

Appplication of psychology to learning processes and theories. Individual differences, measurement, motivation, and intelligence.

0101	Patricia Alexander	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 3315

EDHD789 **Internship in Human Development**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experience in one or more human service agencies in the community.

Contact department for information to register for this course.

EDHD798 **Laboratory in Human Development**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Independent research supervised by an instructor in a research setting.

Limited to human development majors.

Contact department for information to register for this course.

EDHD799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for master's thesis.

Limited to human development majors.

Contact department for information to register for this course.

EDHD840 **Language and Literacy Development**

Credits: 3 Grading Method: Regular

Content of this course is current theoretical and empirical research on children's language developments and on the linguistic basis of beginning reading.

0101	Alexa Romberg	Seats (Total: 20)
	Th 9:30am - 12:15pm	EDU 2101

EDHD888 **Apprenticeship in Human Development Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprenticeship in Human Development research.

Contact department for information to register for this course.

EDHD889 **Practicum in Human Development**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Field experience in applied human development at a professional level o competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHD899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to 12-18 hours for a Ph.D. dissertation.

Limited to human development majors.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed Fall 2015

EDHI338A **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Race/Ethnicity**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Beth Cohen, Corinne Janet, Michelle Strange, Benjamin Parks **Meets September 2, 2015 - October 14, 2015** W 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411

EDHI338C **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Gender**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Maya Graham, Beth Cohen, Jeremy Gombin-Sperling, Jacqueline Mac **Meets August 31, 2015 - October 19, 2015** M 6:45pm - 8:45pm	Seats (Total: 14) MMH 2411
0102	Erin McClure, Noah Henry-Darwish, Kevin Webb, Kumea Shorter-Gooden **Meets September 2, 2015 - October 14, 2015** W 6:30pm - 8:30pm	Seats (Total: 14) MMH 2411
0201	Maya Graham, Beth Cohen, Jeremy Gombin-Sperling **Meets October 26, 2015 - December 7, 2015** M 6:45pm - 8:45pm	Seats (Total: 14) MMH 2411

EDHI338D **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; (Dis)ability Story Circle**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Coty Behanna, Jazmin Pichardo, Beth Cohen, Izetta Mobley **Meets October 26, 2015 - December 7, 2015** M 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411

EDHI338I **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Classism 101**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Beth Cohen, Caroline Gutierrez, Benjamin Parks **Meets October 21, 2015 - December 9, 2015** W 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411

EDHI338K **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Socio-economic Class**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Beth Cohen, Caroline Gutierrez, Dawn Ginnetti, Mary Graham-Fisher, Tiffany Harris **Meets September 3, 2015 - October 15, 2015** Th 6:30pm - 8:30pm	Seats (Total: 14) MMH 2411

0201	Tiffany Harris, Dawn Ginnetti, Mary Graham-Fisher, Beth Cohen **Meets October 22, 2015 - December 3, 2015** Th 6:30pm - 8:30pm	Seats (Total: 14) MMH 2411

EDHI338N **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Sexual Identity**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Noah Henry-Darwish, Erin McClure **Meets October 21, 2015 - December 2, 2015** W 6:30pm - 8:30pm	Seats (Total: 14) MMH 2411
0202	Jacqueline Mac, Jeremy Gombin-Sperling, Beth Cohen, Maya Graham **Meets October 26, 2015 - December 7, 2015** M 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411

EDHI338P **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Emergent Theme**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Beth Cohen, Jazmin Pichardo, Erik Hanson	Seats (Total: 14)
	Meets August 31, 2015 - October 19, 2015	
	M 6:45pm - 8:45pm	MMH 2411

EDHI338Q **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Queer Camp Story Circle**

(Perm req) Credits: 1 Grading Method: Regular, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI338R **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; US Born/Internationally Born**

(Perm req) Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI338T **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; College Park Community/Campus**

(Perm req) Credits: 1 Grading Method: Regular, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI338V **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Veteran/Non-Veteran**

(Perm req)

Credits: 1 | Grading Method: Regular, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI338W **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Story Circle (Size and Appearance)**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Izetta Mobley, Jacqueline Pearce, Beth Cohen, Mary Graham-Fisher, Coty Behanna **Meets August 31, 2015 - October 19, 2015** M 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411

EDHI338X **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Ableism 101**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Contact department for information to register for this course.

EDHI338Z **Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Greek/Non-Greek**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Beth Cohen, Vasco Mateus, Corinne Janet **Meets October 23, 2015 - December 4, 2015** F 10:00am - 12:00pm	Seats (Total: 14) MMH 2411

EDHI488E **Special Topics in Education Policy and Administration; Ecological Ethics and Education**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Jing Lin W 4:15pm - 7:00pm	Seats (Total: 20) EDU 1315

EDHI489 **Field Experiences in Education**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHI605 **Comparative Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI605, EDPL605, or EDPS605. Formerly: EDPL605.

Analyzes and compares leading issues in education in various countries of the world, particularly as they relate to crucial problems in American education.

0101	Nelly Stromquist	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2101

EDHI606 **Political Economy of Education in a Global Context**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI606, EDPL606, or EDPS606. Formerly: EDPL606.

Examination of alternative economics perspectives and their implication for education policy and practice internationally, from local to global levels. The connection of education to issues of development, inequality, poverty, gender, and race will be discussed.

0101	Steven Klees	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 2102

EDHI650 **Professional Seminar in Higher and Adult Education**

Credits: 3 Grading Method: Sat-Fail

Credit only granted for: EDHI650, EDPL650, or EDPS650. Formerly: EDPL650.

Introduction to higher and adult education as a field of study. Origins current dimensions and problems, and emerging issues. Field trips to state and national capitols, and involvement in professional conferences.

0101	Sharon Fries-Britt Tu 7:00pm - 9:45pm	Seats (Total: 20) EDU 3233

EDHI652 **Higher Education in American Society**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI652, EDPL652, or EDPS652. Formerly: EDPL652.

Examines the concepts of academic freedom, corporate autonomy and institutional accountability with emphasis on twentieth century relationships between higher education and government in the United States.

0101	Alberto Cabrera M 7:00pm - 9:45pm	Seats (Total: 20) EDU 2119

EDHI660 **Retention Theories and the Impact of College**

Credits: 3 Grading Method: Regular

Credit only granted for: EDHI660, EDPL660, or EDPS660. Formerly: EDPL660.

An introduction to retention theories an the college impact literature. The primary focus will be to examine the disciplinary and philosophical frameworks that have informed the development of leading theories and policies.

0101	Sharon Fries-Britt Th 4:15pm - 7:00pm	Seats (Total: 15) EDU 2102

EDHI664 **The College Experience**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor. And must be in a major within EDUC-Counseling, Higher Education and Special Education department; or must be in a major within EDUC-Education Policy and Leadership department; or must be in a major within EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDHI664, EDPL664, or EDPS664. Formerly: EDPL664.

Designed to provide students with an overview of the research and scholarship on two of the major stakeholders in higher education -- students and faculty. Examines the educational experiences of college students in and out of the classroom in higher education in the United States by focusing on what students learn and the different collegiate experiences that influence their learning.

0101	Alberto Cabrera	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 3315

EDHI672 **Modes of Inquiry in Education Research**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI672, EDPL672, or EDPS672. Formerly: EDPL672.

Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.

0101	Andrew Lounder	Seats (Total: 20)
	M 7:00pm - 9:45pm	EDU 1121

EDHI679 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI682 **Ecological Ethics and Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI682 or EDHI788E. Formerly: EDHI788E.

An exploration of the paradigms, approaches, and ways of knowing offere through ecological ethics and environmental sustainability education.

0101	Jing Lin	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 1315

EDHI689 **Practicum In Educational Administration and Supervision**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI702 **Advanced Seminar in Research Methods for Education Leaders**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDHI672 and EDHI701. Credit only granted for: EDHI702, EDPL702, or EDPS702. Formerly: EDPL702.

Emphasizes the application of quantitative and qualitative research methodologies to investigate a range of issues relevant to education leaders, including educational equity, efficiency, and effectiveness. Students enroll in either the qualitative or quantitative section of the course, depending on their methodological preference.

Contact department for information to register for this course.

EDHI750 **International Higher Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI750, EDPL750, or EDPS750. Formerly: EDPL750.

Comparison of higher education systems in several countries, and of the problems and issues in higher education faced by these countries.

0101	Anita Gopal	Seats (Total: 15)
	Th 4:15pm - 7:00pm	JMZ 1117

EDHI752 **State Systems of Higher Education**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI752, EDPL752, or EDPS752. Formerly: EDPL752.

Creation, operation, alteration and evaluation of state systems of higher education. Campus autonomy versus public accountability. Analysis of topics such as state planning, budget and program review, and administration of student aid and federal programs.

0101	Marvin Titus	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	JMZ 0205

EDHI754 **Higher Education Finance**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI754, EDPL754, or EDPS754. Formerly: EDPL754.

Economic perspectives on higher education. Ways of financing higher education and current finance issues. Higher education budget concepts and processes.

0101	Marvin Titus	Seats (Total: 20)
	W 7:00pm - 9:45pm	EDU 2102

EDHI760 **The Human Dimension in Administration**

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDHI760, EDPL760, or EDPS760. Formerly: EDPL760.

Theory, research findings, and laboratory experiences in human skills in organizations.

Contact department for information to register for this course.

EDHI788M **Special Topics in Education Policy and Administration; Systems Innovation**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

Contact department for information to register for this course.

EDHI798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Sharon Fries-Britt Contact instructor or department for details.	Seats (Total: 5)
3301	Nelly Stromquist Contact instructor or department for details.	Seats (Total: 10)
3501	Alberto Cabrera Contact instructor or department for details.	Seats (Total: 5)

EDHI889 **Internship in Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHI899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Evaluation Fall 2015

EDMS451 **Introduction to Educational Statistics**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSAR

Restriction: Sophomore standing or higher. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

0101	Gregory Hancock	Seats (Total: 200)
	TuTh 2:00pm - 3:15pm	BRB 1101

EDMS610 Classroom Assessment and Evaluation

Credits: 3 | Grading Method: Regular, Audit

Develop the understandings and skills needed to validly, reliably, and accurately assess student learning and to provide focused leadership in the area of classroom assessment.

Contact department for information to register for this course.

EDMS623 Applied Measurement: Issues and Practices

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: EDMS410. And EDMS645; or students who have taken courses with comparable content may contact the department.

Measurement theory and its application at an intermediate level; test development, validation and interpretation; issues and recent developments in measurement.

0101	Jeffrey Patton	Seats (Total: 25)
	Th 4:15pm - 7:00pm	EDU 1121

EDMS645 Quantitative Research Methods I

Credits: 3 | Grading Method: Regular, Audit

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

0101	Tracy Sweet	Seats (Total: 30)
	W 4:15pm - 7:00pm	ASY 3211

0201	Tracy Sweet TuTh 2:00pm - 3:15pm	Seats (Total: 30) EDU 1121

EDMS646 **General Linear Models I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS645; or an equivalent introductory statistics course.

A first post-introductory inferential statistics course, with emphasis on analysis of variance procedures and designs from within the general linear modeling framework. Assignments include student analysis of education and related data; application of statistical software packages is emphasized.

0101	Ji Seung Yang Tu 4:15pm - 7:00pm	Seats (Total: 30) EDU 3233
0201	Jeffrey Patton W 4:15pm - 7:00pm	Seats (Total: 30) EDU 0220

EDMS647 **Causal Inference and Evaluation Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in EDMS651.

Counterfactual (potential outcomes) framework for causal inference, design/analysis strategies for confounder control, and specific best-practice applications to the evaluation of programs.

Offered fall only.

0101	Laura Stapleton W 4:15pm - 7:00pm	Seats (Total: 20) EDU 1107

EDMS651 **General Linear Models II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS646; or students who have taken courses with comparable content may contact the department.

Multiple regression and correlation analysis; trend analysis; hierarchical and stepwise procedures; logistic regression; software for regression analysis.

0101	Ji Seung Yang M 4:15pm - 7:00pm	Seats (Total: 30) EDU 0220

EDMS657 **Exploratory Latent and Composite Variable Methods**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDMS651.

Development of models for exploratory factor analysis and their practical applications. Additional topics will draw from latent class analysis, cluster analysis, mixture models, canonical correlation, multidimensional scaling, and configural frequency analysis.

0101	Gregory Hancock Tu 4:15pm - 7:00pm	Seats (Total: 30) EDU 0220

EDMS738 **Seminar in Special Problems in Measurement; Special Topic in Item Response Theory**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An opportunity for students with special interests to focus in depth on contemporary topics in measurement. Topics to be announced, but will typically be related to applied and theoretical measurement.

0101	Hong Jiao M 2:00pm - 4:45pm	Seats (Total: 20) CSS 2428

EDMS769M **Special Topics in Applied Statistics in Education; Finite Mixture Models in Statistics & Measurement**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Designed primarily for students majoring or minoring in measurement, statistics or evaluation.

Prerequisite: permission of department.

0101	Jeffrey Harring W 4:15pm - 7:00pm	Seats (Total: 20) JMZ 0205

EDMS779 **Seminar in Applied Statistics; Mathematical Foundations and Simulation Techniques**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Enrollment restricted to students with a major or minor in measurement, statistics or evaluation. Seminar topics will be chosen by individual student interest.

0101	Jeffrey Harring	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 1315

EDMS798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Prerequisite: permission of department.

Contact department for information to register for this course.

EDMS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of 6 credits.

Contact department for information to register for this course.

EDMS889 **Internship in Measurement and Statistics**

Credits: 3-8 Grading Method: Regular, Audit

Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDMS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDMS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12 credits.

Contact department for information to register for this course.

EDPS Education Policy Studies Fall 2015

EDPS210 **Historical and Philosophical Perspectives on Education**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Credit only granted for: EDPL210 or EDPS210. Formerly: EDPL210.

An examination of illustrative historical and philosophical examples of the interplay of ideas and events in the shaping of educational aims and practices from ancient cultures to modern technological societies.

0101	Robert Croninger TuTh 12:30pm - 1:45pm	Seats (Total: 30) EDU 2119
0201	Steven Stakland TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 3315
0301	Bradley Quarles MW 2:00pm - 3:15pm	Seats (Total: 30) SYM 0215

EDPS301 **Foundations of Education**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Credit only granted for: EDPL301 or EDPS301. Formerly: EDPL301.

Social context of education and conflicts over philosophies, values, an goals that are reflected in educational institutions in our pluralistic society. Helps teachers become reflective, critical thinkers about the social and philosophical issues they face and the choices they make.

0101	Molly Dunn MW 9:30am - 10:45am	Seats (Total: 30) EGR 1104
0201	Jason Mayernick MW 11:00am - 12:15pm	Seats (Total: 30) ASY 3207
0301	Jason Mayernick TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMP 1202
0401	Kevin Shindel W 4:15pm - 7:00pm	Seats (Total: 30) EDU 3233

0501	Ethan Hutt	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	SQH 1119

EDPS489 **Field Experiences in Education**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDPS498 **Special Problems in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDPS620 **Education Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI620, EDPL620, or EDPS620. Formerly: EDPL620.

Policy making in education from planning to evaluation with emphasis on the identification of policy problems and the resources available to analysts through multi-disciplinary approaches. An introductory experience with education policy analysis.

0101	Betty Malen	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 1107

EDPS635 **Principles of Curriculum Development**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI635, EDPL635, or EDPS635. Formerly: EDPL635.

Curriculum planning, improvement, and evaluation in the schools; principles for the selection and organization of the content and learning experiences; ways of working in classroom and school on curriculum improvement.

0101	Mary Snyder	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 2119

EDPS679 **Master's Seminar**

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDPS735 **Phenomenological Inquiry I**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI735, EDPL735, or EDPS735. Formerly: EDPL735.

Philosophic grounding for phenomenological inquiry at a beginning level Guided writing practice in doing phenomenological inquiry is provided on a selected lived experience phenomenon.

0101	Francine Hultgren	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 2119

EDPS788G **Special Topics in Education Policy and Administration; Education, Society and Democracy:Critical Perspectives**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Ethan Hutt	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	PLS 1172

EDPS788P **Special Topics in Education Policy and Administration; Core I**

Credits: 3 Grading Method: Regular, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Betty Malen	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 3233

EDPS789 **Doctoral Practicum in Administration and Supervision**

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

Contact department for information to register for this course.

EDPS798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDPS799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EDPS888 **Apprenticeship in Education**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Dennis Herschbach Contact instructor or department for details.	Seats (Total: 10)
0201	Pam Splaine Contact instructor or department for details.	Seats (Total: 10)

EDPS889 **Internship in Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDPS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDPS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDSP Education, Special Fall 2015

EDSP210 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Audit General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210 or EDSP470.

Characteristics and needs of individuals receiving special education an related services. Current issues and practices in special education.

0101	Sarah Mallory	Seats (Total: 40)
	TuTh 9:30am - 10:45am	EDU 1121

EDSP211 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Audit

Corequisite: EDHD210. Restriction: Sophomore standing or lower; and permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDSP210 or EDSP470.

An introduction to the field of special education. Students examine historical foundations, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals. In addition, students are introduced to the nature and characteristics of various disabilities and review current issues in the field including overrepresentation of minority students in special education, inclusion, and federal and state assessment mandates. Current topics are addressed including evidence-based practices, universal design for learning, and individualization and differentiation of instruction..

0101	Joan Lieber W 1:00pm - 3:45pm	Seats (Total: 20) EDU 1315	

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 | Grading Method: Regular | General Education: DSSP, DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

0101	Carolyn Fink W 9:30am - 10:45am M 9:30am - 10:45am	Seats (Total: 28) ASY 3215 Location: TBA	 Lab

EDSP289I **Disability: From Stigma and Sideshow to Mainstream and Main Street**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP, SCIS

0101	Carolyn Fink, Peter Leone Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 20) TYD 2106 EDU 1121	 Discussion
0102	Carolyn Fink, Peter Leone Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 20) TYD 2106 EDU 3315	 Discussion

EDSP376 **Fundamentals of Sign Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

0101	Michael Dunham MW 5:00pm - 6:15pm	Seats (Total: 30) TYD 0111	
0201	Michael Dunham MW 6:15pm - 7:30pm	Seats (Total: 30) TYD 0111	

0301	Michael Dunham MW 3:45pm - 5:00pm	Seats (Total: 30) TYD 0111

EDSP400 **Functional Assessment and Instruction in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP602. Credit only granted for: EDSP400 or EDSP602.

Functional assessment procedures and instructional methods for students with severe disabilities from birth to adulthood.

0101	Frances Kohl W 4:15pm - 7:00pm	Seats (Total: 40) EDU 1121

EDSP402 **Field Placement: Severe Disabilities I**

Credits: 2-5 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Practicum experience in settings serving students with severe disabilities.

0101	Frances Kohl Contact instructor or department for details.	Seats (Total: 10)

EDSP404 **Education of Students with Autism Spectrum Disorders**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP604. Credit only granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for students with autism spectrum disorders.

0101	Jennifer Lee M 4:15pm - 7:00pm	Seats (Total: 35) EDU 1121
0201	Jennifer Lee M 4:15pm - 7:00pm	Seats (Total: 14) EDU 1121

EDSP411 **Universal Design for Learning**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDSP210 or EDSP470. Restriction: Must be in Special Education program.

Universal Design for Learning addresses a foundation framework for teacher candidates to learn how to design and implement instruction for a broad range of students with diverse needs rather than rely exclusively on accommodations to instruction for some students.

0101	Carolyn Fink	Seats (Total: 40)
	M 1:15pm - 4:00pm	EDU 1107

EDSP413 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP613. Credit only granted for: EDSP413, or EDSP613.

Use of applied behavior analysis for assessment of behavior and learnin environments. Design of behavior and classroom management of students in special education.

0101	Kelli Cummings	Seats (Total: 40)
	Tu 4:15pm - 7:00pm	EDU 2119

EDSP420 **Child Development, Birth to Three Years**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDHD210 and EDHD220. Corequisite: EDHD425 and EDHD314. Restriction: Must be in Special Education program.

Child development theory and research, as well as knowledge about typical and atypical development of children from birth to three years of age. The course emphasizes learning for children with and without disabilities, and for children who are at risk due to poverty and other environmental factors. The course will introduce how children develop and the challenges they face within the domains of physical, cognitive, language, social, and emotional development, with particular attention paid to the impact of risk factors on development. Students will become familiar with delays and differences in development that may occur as the result of disability. Finally, students will learn the effects of cultural and linguistic differences on growth and development. Information about theory and research in child development for children with and without disabilities will be enhanced through a series of observational experiences, which will build upon concepts addressed during class. Includes field experiences.

Practicum required. Placement arranged for students not concurrently enrolled in EDSP 421.

0101	Paula Beckman	Seats (Total: 25)
	Th 4:15pm - 7:00pm	KEY 0125

EDSP421 **Field Placement in Special Education: Early Childhood I**

Credits: 2-4 Grading Method: Regular, Audit General Education: DSSP

Restriction: Must be in Special Education program; or must be in one of the following programs (Special Education (Doctoral); Special Education (Master's)).

Field experience I in early childhood special education.

Students must reserve three half-days (8-1) for this experience.

0101	Stacey Williams	Seats (Total: 15)	
	F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	EDU 1107 Location: TBA	Lab

EDSP422 **Curriculum and Instruction: Early Childhood Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP627. Credit only granted for: EDSP422 or EDSP627.

Curriculum and instruction for young children with mild and moderate disabilities, preschool through primary grades.

0101	Joan Lieber	Seats (Total: 25)
	Tu 4:15pm - 7:00pm	TLF 1101

EDSP434 **Field Placement in Special Education: Secondary Middle I**

Credits: 2-4 Grading Method: Regular, Audit General Education: DSSP

Restriction: Must be in Special Education program.

Field experience in secondary middle special education.

0101	Patricia Ulf	Seats (Total: 15)	
	F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	EDU 1107 Location: TBA	Lab

EDSP443 **Language and Literacy Acquisition in Children with Disabilities**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education program. Additional information: This course is the first of four reading courses required by the Maryland State Department of Education for teacher certification in Special Education.

Language and literacy acquisition and characteristics of typical and atypical language development in supporting students with reading and writing disabilities.

0101	Lydia Carlis	Seats (Total: 25)
	W 1:15pm - 4:00pm	EDU 2101

EDSP451 **Curriculum and Instruction: Elementary/Middle Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP652. Credit only granted for: EDSP451 or EDSP652.

Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.

0101	Sarah Mallory	Seats (Total: 40)
	Th 1:15pm - 4:00pm	ARC 1101

EDSP452 **Field Placement in Special Education: Elementary I**

Credits: 2-4 Grading Method: Regular, Audit General Education: DSSP

Restriction: Must be in Special Education program.

Field experience in elementary special education.

0101	Stacey Williams, Patricia Ulf	Seats (Total: 15)	
	F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	EDU 1107 Location: TBA	Lab

EDSP470 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Audit General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

0101	Candice Doyle Th 4:15pm - 7:00pm	Seats (Total: 50) TYD 1132
0201	Sarah Mallory TuTh 9:30am - 10:45am *Restricted to EDSP majors only, permission of instructor is required.*	Seats (Total: 10) EDU 1121

EDSP477 **Curriculum, Assessment, and Instruction: Middle/Secondary Special Education**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP677. Credit only granted for: EDSP477 or EDSP677.

Methods and assessment practices for effective instruction in middle an secondary content areas for students in special education.

0101	Erin Clancy Tu 4:15pm - 7:00pm	Seats (Total: 25) JMZ 0120

EDSP482 **Literacy Approaches for At-Risk Adolescents**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in EDHD426. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP682. Credit only granted for: EDSP482 or EDSP682.

Provides approaches to teaching reading in the content areas for secondary students with disabilities.

0101	Jade Wexler Th 1:15pm - 4:00pm	Seats (Total: 20) CSS 2316

EDSP484 **Reading and Writing Instruction in Special Education II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDSP416. Restriction: Must be in Special Education program. Also offered as: EDSP684. Credit only granted for: EDSP484 or EDSP684.

Focus on the development of reading and writing programs for students in special education. Builds on foundations established in EDSP416.

0101	Ana Taboada Barber Tu 1:15pm - 4:00pm	Seats (Total: 40) JMZ 0105

EDSP487 **Family Partnerships in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP687. Credit only granted for: EDSP487 or EDSP687.

Strategies for communicating and working with families of students with disabilities.

0101	Ruth Buchanan W 1:15pm - 4:00pm	Seats (Total: 60) JMZ 0105

EDSP489 **Field Experiences in Special Education**

Credits: 1-4 Grading Method: Regular, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 20)
0901	Peter Leone Contact instructor or department for details.	Seats (Total: 20)

EDSP498 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

Special education majors only.

Contact department for information to register for this course.

EDSP498B **Special Problems in Special Education; Career Development and Advising**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

0101	Shannon Hayes Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 15)	

EDSP499F **Workshops, Clinics, and Institutes in Special Education; Teaching Children with Disabilities in Elementary Classrooms**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the special education department (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing. Laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups such as school superintendents, principals and supervisors.

Must be an Elementary Education major with a minimum cumulative GPA of 2.75.

0101	Susan De La Paz M 4:15pm - 5:30pm Th 11:00am - 12:15pm	Seats (Total: 30) ASY 1213 EDU 1121	 Discussion
0102	Susan De La Paz M 4:15pm - 5:30pm Tu 11:00am - 12:15pm	Seats (Total: 30) ASY 1213 EDU 1121	 Discussion
0103	Susan De La Paz M 4:15pm - 5:30pm W 10:00am - 11:15am	Seats (Total: 30) ASY 1213 EDU 1121	 Discussion

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EDSP600 **Issues and Trends in Educating Individuals with Disabilities**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: 9 credits in EDSP courses. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Examines research and practice relevant to the education of individuals with disabilities.

0101	Philip Burke W 4:15pm - 7:00pm	Seats (Total: 25) PLS 1119

EDSP602 **Functional Assessment and Instruction in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP400. Credit only granted for: EDSP400 or EDSP602.

Functional assessment procedures and instructional methods for students with severe disabilities from birth to adulthood.

0101	Frances Kohl W 4:15pm - 7:00pm	Seats (Total: 40) EDU 1121

EDSP604 **Education of Students with Autism Spectrum Disorder**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP604, EDSP604. Credit only granted for: EDSP404 or EDSP604.

Characteristics, needs, assessment, and educational methods for student diagnosed as autistic or having a pervasive development disorder.

0101	Jennifer Lee M 4:15pm - 7:00pm	Seats (Total: 35) EDU 1121
0201	Jennifer Lee M 4:15pm - 7:00pm	Seats (Total: 14) EDU 1121

EDSP613 **Behavior and Classroom Management in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Also offered as: EDSP413. Credit only granted for: EDSP413 or EDSP613.

Applied behavior analysis for assessment of behavior and learning environments. Behavior and classroom management strategies for students in special education.

0101	Kelli Cummings Tu 4:15pm - 7:00pm	Seats (Total: 40) EDU 2119

EDSP627 **Curriculum and Instruction: Early Childhood Special Education**

Credits: 3 Grading Method: Regular, Audit

Also offered as: EDSP422. Credit only granted for: EDSP422 or EDSP627.

Curriculum and instructor for young children with mild and moderate disabilities, preschool through primary grades.

For EDSP majors only.

0101	Joan Lieber Tu 4:15pm - 7:00pm	Seats (Total: 25) TLF 1101

EDSP652 **Curriculum and Instruction: Elementary Special Education**

Credits: 3 Grading Method: Regular, Audit

Also offered as: EDSP652, EDSP652. Credit only granted for: EDSP451 or EDSP652.

Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.

For EDSP majors only.

0101	Sarah Mallory Th 1:15pm - 4:00pm	Seats (Total: 40) ARC 1101

EDSP671 **Qualitative Methodologies in Special Education**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Design and evaluation of qualitative research in special education across disabilities and ages.

0101	Paula Beckman W 4:15pm - 7:00pm	Seats (Total: 15) EDU 2102

EDSP677 **Curriculum, Assessment, and Instruction: Middle/Secondary Special Education**

Credits: 3 Grading Method: Regular, Audit

Also offered as: EDSP477. Credit only granted for: EDSP477 or EDSP677.

Methods and assessment practicies for effective instruction in middle and secondary content areas for students in special education.

For EDSP majors only. The first five weeks of class are on campus. The remaining classes will be at a local school off campus as part of a weekly supervised tutoring clinic experience. Plan for appropriate travel time transitioning from on-campus to the local school tutoring experience.

0101	Erin Clancy	Seats (Total: 25)
	Tu 4:15pm - 7:00pm	JMZ 0120

EDSP682 **Advanced Literacy Approaches for At-Risk Adolescents**

Credits: 3 Grading Method: Regular, Audit

Also offered as: EDSP482. Credit only granted for: EDSP482, EDSP488R, EDSP682, or EDSP788R. Formerly: EDSP788R.

Approaches to teaching reading in the content areas for secondary students with disabilities.

0101	Jade Wexler	Seats (Total: 20)
	Th 1:15pm - 4:00pm	CSS 2316

EDSP683 **Assessment and Instruction in Mathematics in Special Education**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP485. Credit only granted for: EDSP485 or EDSP683.

Instructional methods and assessment in mathematics in special education.

Contact department for information to register for this course.

EDSP684 **Reading and Writing Instruction in Special Education II**

Credits: 3 Grading Method: Regular

Prerequisite: EDSP616. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP484. Credit only granted for: EDSP484 or EDSP684.

Development of effective reading and writing programs for students receiving special education services. Builds on the foundation established in EDSP 616.

0101	Ana Taboada Barber	Seats (Total: 40)
	Tu 1:15pm - 4:00pm	JMZ 0105

EDSP687 **Family Partnerships in Special Education**

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP487. Credit only granted for: EDSP487 or EDSP687.

Strategies for communicating and working with families of students with disabilities.

0101	Ruth Buchanan	Seats (Total: 60)
	W 1:15pm - 4:00pm	JMZ 0105

EDSP691 **Graduate Internship in Special Education I: Early Childhood**

Credits: 2-4 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Credit only granted for: EDSP431 and EDSP691. Formerly: EDSP431.

Internship I in early childhood special education.

Students must reserve three half-days (8-1) for this experience.

0101	Stacey Williams	Seats (Total: 25)	
	F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	EDU 3315 Location: TBA	Lab

EDSP692 **Graduate Internship in Special Education I: Elementary**

Credits: 2-4 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Credit only granted for: EDSP456 or EDSP692. Formerly: EDSP456.

Internship I in elementary special education.

0101	Patricia Ulf, Stacey Williams F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	Seats (Total: 15) EDU 3233 Location: TBA	Lab
0201	Stacey Williams, Patricia Ulf, Anne Butler F 10:30am - 12:00pm TuWTh 8:00am - 1:00pm	Seats (Total: 15) EDU 3233 Location: TBA	Lab

EDSP693 **Graduate Internship in Special Education I: Secondary Middle**

Credits: 2-4 Grading Method: Regular, Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Credit only granted for: EDSP436 or EDSP693. Formerly: EDSP436.

Internship I in secondary middle special education.

0101	Patricia Ulf F 10:30am - 12:00pm MTuWTh 8:00am - 1:00pm	Seats (Total: 20) EDU 3236 Location: TBA	Lab

EDSP694 **Graduate Internship in Special Education II: Early Childhood**

Credits: 6-11 Grading Method: Regular, Audit

Corequisite: EDSP690. Restriction: Must be in Special Education program; or must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Credit only granted for: EDSP494, EDSP694, or EDSP889A.

Student teaching, full-time for twelve weeks, with infants or preschool children with disabilities.

0101	Stacey Williams Contact instructor or department for details.	Seats (Total: 10)

EDSP798 **Special Problems in Special Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Special education majors only.

Contact department for information to register for this course.

EDSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Special education majors only.

Contact department for information to register for this course.

EDSP888 **Apprenticeship in Special Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A **Apprenticeship in Special Education; Apprenticeship in College Teaching**

Credits: 3 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP889 **Internship in Special Education**

(Perm req)

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Special education majors only.

Contact department for information to register for this course.

EDSP889I **Internship in Special Education; Innovative Technology for ASDs**

Credits: 3 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Special education majors only.

Contact department for information to register for this course.

EDUC Education Fall 2015

EDUC388 **Special Topics in Education; Guided Experience In College Teaching**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0101	Thomas Eacho W 5:00pm - 7:00pm Contact instructor or department for details.	Seats (Total: 30) KEY 0120
	Section restricted to students approved as undergraduate teaching assistants. Section 0101 and 0102 are reserved for standard UTA program and should be taken concurrently with EDUC 498, 0101 for one credit.	
0102	Thomas Eacho Tu 5:00pm - 7:00pm Contact instructor or department for details.	Seats (Total: 30) ASY 3215
	Section restricted to students approved as undergraduate teaching assistants. Section 0101 and 0102 are reserved for standard UTA program and should be taken concurrently with EDUC 498, 0101 for one credit.	
0202	Allison LaFave W 3:00pm - 5:00pm Contact instructor or department for details.	Seats (Total: 20) COL 0102
	Restricted to students who are teaching UNIV100 or UNIV101.	

0203	Gerry Strumpf Tu 3:30pm - 5:30pm Contact instructor or department for details. *Restricted to students who are teaching UNIV100 or UNIV101.*	Seats (Total: 20) COL 0102
0401	Sharon Vanwright Contact instructor or department for details. Contact instructor or department for details. *Relates to the academic achievement program and should be taken concurrently with EDCI498, section 6601.*	Seats (Total: 20)
0501	Alicia Thomas, Stacy Woycheck W 3:30pm - 5:00pm Contact instructor or department for details. *Relates to the standard UTA program and is restricted to Life Science students only.*	Seats (Total: 20) SYM 2312
SG91	Mary Gallagher, Tirza Bartels W 3:30pm - 5:30pm Contact instructor or department for details. *Restricted to students in the Guided Study Sessions (GSS program at the Universities at Shady Grove). Prerequisite: Permission of the Associate Director of the Center for Academic Success (CAS) at USG.*	Seats (Total: 12) Location: TBA

EDUC498 **Selected Topics in Education**

(Perm req)

Credits: 1-3 Grading Method: Regular

Current topics and issues in education.

0101	Thomas Eacho Contact instructor or department for details.	Seats (Total: 60)

EDUC499H **Honors Thesis**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Individual thesis work under supervision of faculty advisors; includes periodic seminar meetings with other honors students engaged in thesis work.

Course restricted to students admitted to College of Education honors program.

0101	Christy Tirrell-Corbin Contact instructor or department for details.	Seats (Total: 14)

EDUC888 **Applied Apprenticeship in Education**

Credits: 1-3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888D **Applied Apprenticeship in Education; Educational Politics**

Credits: 1 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC888I **Applied Apprenticeship in Education; Systems Innovation**

Credits: 3 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

IH40	Stephanie Brown Contact instructor or department for details.	Seats (Total: 20)

EDUC898 **Pre-Candidacy Research**

Credits: 2-4 Grading Method: Regular

Pre-Candidacy Research

IH41	Margaret McLaughlin, John Norris Contact instructor or department for details. *PGCPS 1 EdD Outreach Program. Registration restricted to program participants.*	Seats (Total: 10)
IH42	Margaret McLaughlin Contact instructor or department for details.	Seats (Total: 5)
IH43	Thomas Davis Contact instructor or department for details. *PGCPS 1 EdD Outreach Program. Registration restricted to program participants.*	Seats (Total: 3)

IH44	David Imig	Seats (Total: 3)
	Contact instructor or department for details.	
	PGCPS 1 EdD Outreach Program. Registration restricted to program participants.	
IH45	Stephanie Brown	Seats (Total: 1)
	Contact instructor or department for details.	
	PGCPS 1 EdD Outreach Program. Registration restricted to program participants.	

EDUC899 **Dissertation of Practice Research**

Credits: 1-6 Grading Method: Regular, Audit

Registration required to the extent of 6-9 hours for an Ed.D. Dissertation.

Contact department for information to register for this course.

ENAE Engineering, Aerospace Fall 2015

ENAE100 **The Aerospace Engineering Profession**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: ENES100 and MATH140.

Overview of salient aspects of professional practice of Aerospace Engineering. Introduction to the range of technical expertise needed to succeed in the profession and the objectives of the various parts of the Aerospace Engineering program at UMCP in supporting students' efforts in gaining the required knowledge and skills. Familiarization with departmental faculty and their areas of research, creation of links with other students, professional society student chapters, and available resources. Discussion of ethical issues, business requirements, and their interactions with technical developments.

0101	Norman Wereley	Seats (Total: 100)
	Tu 12:30pm - 1:45pm	EGR 1202

ENAE283 **Introduction to Aerospace Systems**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Mary Bowden TuTh 9:30am - 10:45am	Seats (Total: 90) CHE 2110	

ENAE283H **Introduction to Aerospace Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.

Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.

0101	Andrew Becnel TuTh 9:30am - 10:45am	Seats (Total: 15) EGR 1110	

ENAE301 **Dynamics of Aerospace Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENAE202, ENES102, and MATH241. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Kinematics and dynamics of three dimensional motion of point masses and rigid bodies with introduction to more general systems. Primary emphasis on Newtonian methods. Practice in numerical solutions and computer animation of equations of motion using MATLAB.

0101	Derek Paley TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 28) CHE 2110 EGR 0312	 Lab
0102	Derek Paley TuTh 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 28) CHE 2110 EGR 0312	 Lab
0103	Derek Paley TuTh 12:30pm - 1:45pm F 3:00pm - 3:50pm	Seats (Total: 28) CHE 2110 KEB 2111	 Lab

0104	Derek Paley	Seats (Total: 28)	
	TuTh 12:30pm - 1:45pm F 4:00pm - 4:50pm	CHE 2110 KEB 2111	Lab

ENAE311 **Aerodynamics I**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, and MATH241. Corequisite: ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0101	Pino Martin	Seats (Total: 100)
	TuTh 9:30am - 10:45am	CHE 2108

ENAE311H **Aerodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENES220, ENAE202, and MATH241. Corequisite: ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.

0101	Stuart Laurence	Seats (Total: 15)
	TuTh 9:30am - 10:45am	EGR 3102

ENAE324 **Aerospace Structures**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220. Restriction: Must be in Engineering: Aerospace program.

Analysis of torsion, beam bending, plate bending, buckling and their application to aerospace.

Contact department for information to register for this course.

ENAE362 **Aerospace Instrumentation and Experimentation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246 and ENAE283. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.

Basic instrumentation electronics including DC electronics, AC electronics, semiconductors, electro-optics and digital electronics. Sensing devices used to carry out experiments in Aerospace Engineering includes metrology, machine tool measurements, bridge circuits, optical devices, and introduction to computer based data acquisition. Topics chosen to support measurements in aerodynamics, flight structures and flight control.

0101	Allen Winkelmann MW 1:00pm - 1:50pm M 2:00pm - 5:00pm	Seats (Total: 22) JMP 3201 EGL 0123	 Lab
0102	Allen Winkelmann MW 1:00pm - 1:50pm Tu 2:00pm - 5:00pm	Seats (Total: 22) JMP 3201 EGL 0123	 Lab
0103	Allen Winkelmann MW 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 22) JMP 3201 EGL 0123	 Lab
0104	Allen Winkelmann MW 1:00pm - 1:50pm Th 2:00pm - 5:00pm	Seats (Total: 22) JMP 3201 EGL 0123	 Lab
0105	Allen Winkelmann MW 1:00pm - 1:50pm W 9:00am - 12:00pm	Seats (Total: 22) JMP 3201 EGL 0123	 Lab

ENAE380 **Flight Software Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE283 and ENAE202. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.

Avionics using advanced sensor and computing technologies are at the heart of every modern Aerospace vehicle. Advanced software systems to improve cockpit safety and enable unmanned and deep-space missions. Object-oriented programming and software engineering concepts required to design and build complex flight software systems. Software validation, verification and real-time performance analysis to assess flight software system reliability and robustness. Human-machine interface design for piloted systems. Automatic onboard data acquisition and decision-making for unmanned air and space vehicles.

Three hours of lecture and two hours of laboratory per week. Prerequisite: ENAE202 and ENAE283. Junior standing. For ENAE majors only.

0101	Anthony Banes MW 12:00pm - 12:50pm F 9:00am - 10:50am	Seats (Total: 20) CHE 2110 EGR 0312	 Lab
0102	Anthony Banes MW 12:00pm - 12:50pm F 11:00am - 12:50pm	Seats (Total: 20) CHE 2110 EGR 0312	 Lab
0103	Anthony Banes MW 12:00pm - 12:50pm F 1:00pm - 2:50pm	Seats (Total: 20) CHE 2110 KEB 2107	 Lab
0201	Huan Xu MW 12:00pm - 12:50pm M 9:00am - 10:50am	Seats (Total: 22) PLS 1130 EGR 0312	 Lab
0202	Huan Xu MW 12:00pm - 12:50pm Tu 2:00pm - 3:50pm	Seats (Total: 22) PLS 1130 EGR 0312	 Lab
0203	Huan Xu MW 12:00pm - 12:50pm M 2:00pm - 3:50pm	Seats (Total: 22) PLS 1130 EGR 0312	 Lab

ENAE398H **Honors Research Project**

(Perm req)

Credits: 1-3 Grading Method: Regular

Planned sequence of steps in aerospace honors research in which student take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

Contact department for information to register for this course.

ENAE403 **Aircraft Flight Dynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE414 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Study of motion of aircraft, equations of motion, aerodynamic force representation, longitudinal and lateral motions, response to controls and to atmospheric disturbances, handling qualities criteria and other figures of merit.

0101	Imraan Faruque	Seats (Total: 65)
	TuTh 3:30pm - 4:45pm	EGR 1108

ENAE423 **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0101	Andrew Becnel	Seats (Total: 75)
	MWF 11:00am - 11:50am	CHE 2110

ENAE423H **Vibration and Aeroelasticity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.

0101	Norman Wereley	Seats (Total: 18)
	MWF 11:00am - 11:50am	ANS 0402

ENAE441 **Space Navigation and Guidance**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.

0101	Liam Healy	Seats (Total: 45)
	TuTh 9:30am - 10:45am	EGR 0110

ENAE455 Aircraft Propulsion and Power

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: ENES232, ENAE414, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of piston, turbojet, fanjet, and other variations of airbreathing aircraft power units.

0101	Kenneth Yu	Seats (Total: 68)
	TuTh 12:30pm - 1:45pm	PLS 1130

ENAE457 Space Propulsion and Power

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.

Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.

0101	Raymond Sedwick	Seats (Total: 47)
	TuTh 2:00pm - 3:15pm	EGR 0110

ENAE481 Principles of Aircraft Design

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE324, ENAE362, and ENAE432. Corequisite: ENAE414. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Aircraft design principles blending both synthesis and analysis. The iterative nature of the design process. Applied aerodynamics. Elements of aircraft performance calculation and optimization. Design of aircraft including payload, crew and avionics provisions, propulsion selection and sizing, aerodynamic configuration optimization, mass properties, stability and control characteristics, and vehicle subsystems. Individual student projects in aircraft design.

0101	Dominic Palumbo MWF 2:00pm - 2:50pm	Seats (Total: 65) JMP 3201
0201	Sung Lee MWF 2:00pm - 2:50pm *This course is restricted to students on the Design, Build, Fly team and requires permission from the department to enroll.*	Seats (Total: 12) CHM 1224
0301	James Baeder MWF 2:00pm - 2:50pm *This course is restricted to students on the DOE Wind Challenge team an requires permission from the department to enroll.*	Seats (Total: 22) EGR 0108

ENAE483 **Principles of Space Systems Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENAE404, ENAE324, ENAE362, and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Principles of space systems analysis and vehicle design. Launch vehicle performance analysis and optimization. Design of vehicle systems including avionics, power, propulsion, life support, human factors, structures, actuator and mechanisms, and thermal control. Design processes and design synthesis. Individual student projects in vehicle design.

0101	David Akin, Andrew Becnel TuTh 11:00am - 12:15pm	Seats (Total: 47) JMP 2121

ENAE499 **Elective Research**

(Perm req)

Credits: 3 Grading Method: Regular

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE601 **Astrodynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE404 and ENAE441.

Mathematics and applications of orbit theory, building upon the foundations developed in ENAE 404 and ENAE 441. Topics include two body orbits, solutions of Kepler's equation, the two-point boundary value problem, rendezvous techniques, and Encke's method.

0101	Christine Hartzell MW 2:00pm - 3:15pm	Seats (Total: 25) ITV 1111

ENAE631 **Helicopter Aerodynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE414 and ENAE311. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.

A history of rotary-wing aircraft, introduction to hovering theory, hovering and axial flight performance, factors affecting hovering and vertical flight performance, autorotation in vertical descent, concepts of blade motion and control, aerodynamics of forward flight, forward flight performance, operational envelope, and introduction to rotor acoustics.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Bharath Madapusi Govindarajan MW 9:30am - 10:45am	Seats (Total: 20) JMP 2217
DE01	Bharath Madapusi Govindarajan MW 9:30am - 10:45am *For Sikorsky students.*	Seats (Total: 18) ONLINE
HT01	Bharath Madapusi Govindarajan MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA
SG01	Bharath Madapusi Govindarajan MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA
SM01	Bharath Madapusi Govindarajan MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA

TV01	Bharath Madapusi Govindarajan MW 9:30am - 10:45am	Seats (Total: 5) Location: TBA

ENAE634 **Helicopter Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE631. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.

Principles and practice of the preliminary design of helicopters and similar rotary wing aircrafts. Design trend studies, configuration selection and sizing methods, performance and handling qualities analyses, structural concepts, vibration reduction and noise. Required independent design project conforming to a standard helicopter request for proposal (RFP).

DE01	Inderjit Chopra Contact instructor or department for details.	Seats (Total: 15)

ENAE641 **Linear System Dynamics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE432.

Linear systems; state space, multi-input, multi-output models; eigenstructure; controllability, observability, singular value analysis; multivariable Nyquist condition; observer design; introduction to Kalman filtering. Full state feedback techniques including pole placement and LQR/LQG techniques; introduction to loop shaping and robustness.

0101	Robert Sanner TuTh 12:30pm - 1:45pm	Seats (Total: 25) MTH 1313

ENAE651 **Smart Structures**

Credits: 3 Grading Method: Regular, Audit

Topics related to the analysis, design, and implementation of smart structures and systems: modeling of beams and plates with induced strain actuation; shape memory alloys; electro-rheological fluids; magnetostrictor and electrostricter actuators and fiber optic sensors.

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

0101	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 15) JMP 2222
SM01	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 10) Location: TBA
TV01	Inderjit Chopra TuTh 9:30am - 10:45am	Seats (Total: 10) Location: TBA

ENAE655 **Structural Dynamics**

Credits: 3 Grading Method: Regular, Audit

Advanced principles of dynamics necessary for structural analysis; solutions of eigenvalue problems for discrete and continuous elastic systems, solutions to forced response boundary value problems by direct, modal, and transform methods.

0101	Roberto Celi MW 2:00pm - 3:15pm	Seats (Total: 25) JMP 2216
HT01	Roberto Celi MW 2:00pm - 3:15pm	Seats (Total: 4) Location: TBA
SG01	Roberto Celi MW 2:00pm - 3:15pm	Seats (Total: 4) Location: TBA
SM01	Roberto Celi MW 2:00pm - 3:15pm	Seats (Total: 4) Location: TBA
TV01	Roberto Celi MW 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENAE682 **Hypersonic Aerodynamics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Aerospace Engineering department.

Hypersonic shock and expansion waves, Newtonian theory, Mach methods, numerical solutions to hypersonic inviscid flows, hypersonic boundary layer theory, viscous interactions, numerical solutions to hypersonic viscous flows. Applications to hypersonic vehicles.

0101	Stuart Laurence MW 12:30pm - 1:45pm	Seats (Total: 15) EGR 3102	

ENAE684 **Computational Fluid Dynamics I**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Aerospace Engineering department.

Partial differential equations applied to flow modelling, fundamental numerical techniques for the solution of these equations, elliptic, parabolic, and hyperbolic equations, elements of finite difference solutions, explicit and implicit techniques. Applications to fundamental flow problems.

0101	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 30) EGR 2116	
DE01	Instructor: TBA	Seats (Total: 5)	
HT01	Instructor: TBA	Seats (Total: 5)	
SG01	Instructor: TBA	Seats (Total: 5)	
SM01	Instructor: TBA	Seats (Total: 5)	
TV01	Instructor: TBA	Seats (Total: 5)	

ENAE692 **Introduction to Space Robotics**

Credits: 3 Grading Method: Regular, Audit

Analysis techniques for manipulator kinematics and dynamics. DH parameters, serial and parallel manipulators, approaches to redundancy. Applications of robots to space operations, including manipulators on free-flying bases, satellite servicing, and planetary surface mobility. Sensors, actuators, and mechanism design. Command and control with humans in the loop.

0101	Craig Carignan MW 5:00pm - 6:15pm MW 4:00pm - 4:50pm	Seats (Total: 20) EGR 0108 EGR 0135	 Discussion

ENAE788A **Selected Topics in Aerospace Engineering; Fundamentals of Explosions: Natural, Accidental, and Controlled**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Elaine Oran MW 2:00pm - 3:15pm	Seats (Total: 20) PHY 1201

ENAE788D Selected Topics in Aerospace Engineering; Advanced Space Systems Design

Credits: 3 Grading Method: Regular, Audit

0101	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) JMP 2121
HT01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	David Akin TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

ENAE788I Selected Topics in Aerospace Engineering; Wind Energy Theory

Credits: 1-3 Grading Method: Regular, Audit

0101	James Baeder MWF 2:00pm - 2:50pm	Seats (Total: 10) Location: TBA

ENAE788K Selected Topics in Aerospace Engineering; Estimation and Control of Stochastic Systems

Credits: 1-3 Grading Method: Regular, Audit

0101	Robert Sanner TuTh 3:30pm - 4:45pm	Seats (Total: 20) JMP 2202

ENAE788N Selected Topics in Aerospace Engineering; Near-Earth Object Exploration

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE601. This course provides an overview of the near-Earth objects (NEOs) of our solar system|the asteroids and comets whose orbits closely approach Earth's orbit|and what we know about them, what we're learning about them, and how to design spacecraft missions to interact with them.

0101	Brent Barbee	Seats (Total: 15)
	TuTh 5:00pm - 6:15pm	JMP 2216

ENAE788Q **Selected Topics in Aerospace Engineering; Multibody Dynamics**

Credits: 3 Grading Method: Regular, Audit

0101	Olivier Bauchau	Seats (Total: 10)
	MW 2:00pm - 3:15pm	JMP 1202

ENAE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENAE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENAE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCE Engineering, Civil Fall 2015

ENCE100 **Introduction to Civil and Environmental Engineering**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An overview of the department of Civil and Environment Engineering. Students are introduced to the undergraduate curriculum and will be exposed to other undergraduate and graduate students at various points in their program. The course blends panel presentations by seniors and graduate students, faculty and practitioners with a project and book review to be performed by the students.

0101	Kaye Brubaker F 1:00pm - 1:50pm	Seats (Total: 132) SPH 1312

ENCE200 **Civil Engineering Computation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100, MATH141, and ENES102; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE200 or ENCE202. Formerly: ENCE202.

Development of knowledge and skills in managing, analyzing, interpreting, and communicating spatial information. Computer Aided Drawing (CAD) and Geographic Information Systems (GIS) are introduced in the context of civil and environmental engineering applications.

0101	Jianguo Ma, Frank White MW 2:00pm - 3:15pm	Seats (Total: 38) EGR 3106
0201	Jianguo Ma, Frank White MW 3:30pm - 4:45pm	Seats (Total: 38) JMP 1202

ENCE201 **Engineering Information Processing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

0101	Charles Schwartz MWF 2:00pm - 2:50pm	Seats (Total: 39) ANS 0412

ENCE215 **Engineering for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM135; and permission of ENGR-Civil & Environmental Engineering department.

Engineers have a key role to play in planning, designing, building, and ensuring a sustainable future. In this class, a problem-based approach is used to examine fundamentally-based analyses and approaches for engineering as sustainable society, with a focus on sustainable use of energy and materials, sustainable infrastructure solutions, atmospheric sustainability and sustainable water supply, and human population growth and resource consumption and its implications for sustainability.

0101	Natasha Andrade TuTh 9:30am - 10:45am	Seats (Total: 18) EGR 3111	
0201	Natasha Andrade TuTh 2:00pm - 3:15pm	Seats (Total: 25) EGR 3102	
0301	Natasha Andrade TuTh 3:30pm - 4:45pm	Seats (Total: 25) EGR 2154	

ENCE300 **Fundamentals of Engineering Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Behavior, physical, mechanical and chemical properties, design and performance of civil engineering materials, including aggregates, cement, concrete, asphalt binders and mixtures, plastics and geosynthetics, timber, metals and alloys. Modified and advanced highway materials (polymer and rubber modified mixtures, high performance concrete, composites, smart materials). Laboratory testing with hands-on experience on aggregates, Portland cement concrete, asphalt mixtures, timber and metals as per SUPERAVE, ACI design methods, and ASTM standards and specifications.

Restricted to students in the College of Engineering.

0101	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 10:30am - 12:30pm	Seats (Total: 15) TWS 1100 EGL 0110E	 Lab
0102	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 12:30pm - 2:30pm	Seats (Total: 15) TWS 1100 EGL 0110E	 Lab
0103	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 2:30pm - 4:30pm	Seats (Total: 15) TWS 1100 EGL 0110E	 Lab

0104	Dimitrios Goulias Tu 12:30pm - 2:30pm Th 4:30pm - 6:30pm	Seats (Total: 15) TWS 1100 EGL 0110E	 Lab

ENCE302 **Probability and Statistics for Civil and Environmental Engineers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH246 and ENCE201; and permission of ENGR-Civil & Environmental Engineering department.

Statistics is the science of data. Civil Engineers must often make decisions based on incomplete, variable or uncertain information. In addition, modern methods of design and analysis need to account for variability in natural, engineered and human systems. After successful completion of this class, a student should have facility and familiarity with established basic techniques for managing data, modeling variability and uncertainty, communicating about data and decisions, and supporting or defending a decision or judgment based on uncertain or incomplete data.

Restricted to students in the College of Engineering.

0101	Bilal Ayyub MWF 2:00pm - 2:50pm	Seats (Total: 55) PHY 1204

ENCE305 **Fundamentals of Engineering Fluids**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261, ENES220, and PHYS260; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE305 or ENCE330. Formerly: ENCE330.

The theoretical bases for fluid statics and dynamics, including the conservation of mass, energy and momentum. Modeling of hydraulic systems are introduced. Emphasis on pipe flow and open-channel hydraulics, with real-world applications.

0101	Kaye Brubaker MWF 8:00am - 8:50am	Seats (Total: 40) ITV 1100
0102	Richard McCuen MWF 10:00am - 10:50am	Seats (Total: 43) EGR 3106

ENCE310 **Introduction to Environmental Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS260 and ENCE215; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to the physical, chemical and biological systems relating to the quality of water, land and air environments. Fundamental principles will be emphasized, current environmental pollution problems will be examined and methods of pollution abatement discussed.

0101	Carmen Franks TuTh 8:00am - 9:15am	Seats (Total: 66) PHY 1201

ENCE320 **Introduction to Project Management**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering or in the Project Management Minor.

Learn the fundamentals of project management and the analytical skills for the management side of engineering projects.Topics include economic analysis, project screening and selection, organizational and project structure, scheduling, budgeting, resource management, life cycle costing, and project control.

Restricted to students in the College of Engineering.

0101	Scott Macrae M 5:00pm - 7:30pm	Seats (Total: 108) CHE 2110

ENCE325 **Introduction to Construction Project Management**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management minor.

Learn the basic topics in sourcing, planning, financing, designing, contracting, constructing and operating buildings and other facilities in the built infrastructure. Topics include construction economics, design constructability reviews, construction process planning, contracts and procurement strategies, project scheduling and resource utilization, site layout planning, project cost and quality controls, temporary structures, environmental sustainability, project handover procedures, facility operation and management, IT-based tools for construction project and resource management.

0101	Miroslaw Skibniewski Th 6:00pm - 8:30pm	Seats (Total: 50) CSI 1122

ENCE340 **Fundamentals of Geotechnical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Introductory study of soils in civil engineering. Soil origin, phase relationships and classification schemes. Soil hydraulics: capillary, effective stress, permeability and seepage considerations. Basic stress distribution theories and soil consolidation-settlement analysis. Integration of shear strength evaluation with slope stability analysis. If time permits, topics such as applications in geoenvironmental engineering will be covered.

0101	Ahmet Aydilek TuTh 9:30am - 10:45am	Seats (Total: 50) PHY 1204

ENCE353 **Introduction to Structural Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department; and (MATH246 and ENES220).

The basic tools of structural analysis and design. Design loads. Equilibrium of external and internal forces. Shear and moment diagrams in beams and frames. Truss analysis. Influence line diagrams. The slope-deflection method and method of consistent deformation. Matrix stiffness methods for beams, frames and trusses.

Restricted to students in the College of Engineering.

0101	Mark Austin MWF 9:00am - 9:50am	Seats (Total: 60) WDS 1114

ENCE360 **Analysis of Civil Engineering Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE201 and MATH140; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to systems approach and systems analysis in civil and environmental engineering. Introduction to systems analysis tools that facilitate engineering management decision making including optimization and computer simulation. Introduction to linear and nonlinear mathematical optimization including linear and integer programming, elementary nonlinear programming and dynamic programming.

0101	Ali Haghani TuTh 9:30am - 10:45am	Seats (Total: 40) EGR 0135
0102	Ali Haghani TuTh 11:00am - 12:15pm	Seats (Total: 35) JMP 2222

ENCE370 **Introduction to Transportation Engineering and Planning**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261, ENCE201, and PHYS260; and permission of ENGR-Civil & Environmental Engineering department.

Engineering problems of transportation by highways, airways, pipelines, waterways, and railways. Transportation modes and technologies, vehicle dynamics, basic facility design, traffic stream models, capacity analysis, transportation planning, evaluation and choice, and network analysis.

Restricted to students in the College of Engineering.

0101	Cinzia Cirillo MWF 1:00pm - 1:50pm	Seats (Total: 60) TYD 2111

ENCE411 **Environmental Engineering Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE310; and permission of ENGR-Civil & Environmental Engineering department.

Introduces the analytical techniques available to assess performance of engineering processes as they relate to water, soil, and air treatment and quality. The basic principles of environmental management, economics of waste treatment, by-product reutilization, and energy cycles are introduced and discussed. Alternative technologies are introduced and evaluated mostly by assessing their potential to reduce waste, minimize energy use, and promote sustainability. Students' activities include, a weekly lab to provide hands-on experience with environmental quality measurements and treatment techniques; on-site visits to regional industries that undertake sustainable practices; and a final research project where experimental design and laboratory techniques are used to assess interactions between technologies and natural systems and their potential for reducing environmental impacts.

0101	Alba Torrents TuTh 11:00am - 11:50am W 10:00am - 1:00pm	Seats (Total: 12) ITV 1111 Location: TBA	Lab
0102	Alba Torrents TuTh 11:00am - 11:50am W 2:00pm - 5:00pm	Seats (Total: 12) ITV 1111 Location: TBA	Lab

ENCE422 **Project Cost Accounting and Economics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

0101	Qingbin Cui Th 5:00pm - 7:30pm	Seats (Total: 60) CHM 2201

ENCE423 **Project Planning, Estimating & Scheduling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing.Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.

Restricted to students in the College of Engineering.

0101	Kenneth O'Connell Tu 5:00pm - 7:30pm	Seats (Total: 100) CHE 2108

ENCE424 **Communication for Project Managers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

0101	William Brantley Tu 5:00pm - 7:30pm	Seats (Total: 75) CSI 2117

ENCE426 **Construction Documentation and BIM Applications in Engineering and Construction**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the basics of construction documentation methods, with particular emphasis on Building Information Modeling (BIM). Topics include: the fundamentals of assembly, coordination, and maintenance of construction documents and implementation of BIM techniques in the design and construction processes, and; a review of Autodesk, Revit, and Navisworks and other leading BIM software. Lectures from project management faculty supplemented by guest lecturers from the construction industry.

0101	Jason Dreher W 6:00pm - 8:30pm	Seats (Total: 40) CSI 2107

ENCE432 **Ground Water Hydrology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE305; and permission of ENGR-Civil & Environmental Engineering department.

Concepts related to the development of the ground water resources, hydrology, hydrodynamics of flow through porous media, hydraulics of wells and basin-wide ground water development. Fundamentals of ground water pollution are introduced.

Restricted to students in the College of Engineering.

0101	Yaron Sternberg MWF 9:00am - 9:50am	Seats (Total: 42) CHM 0119	

ENCE441 **Foundation Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

Critical review of classical lateral earth pressure theories, analysis of retaining walls and reinforced earth walls, subsurface explorations, bearing capacity and settlement of shallow foundations, design of deep foundations that includes both pile foundations and drilled shafts.

Restricted to students in the College of Engineering.

0101	Mohamed Aggour TuTh 2:00pm - 3:15pm	Seats (Total: 70) EGR 1108	

ENCE444 **Experimental Methods in Geotechnical Structural Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE353 and ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

In the geotechnical engineering part of the course, major soils testing and their interpretation including classification, compaction, strength, and compressibility will be undertaken. The structural engineering part of this course covers test planning, loading apparatus, instrumentation, data acquisition and data analysis, as well as basic aspects of structural testing techniques and shake-table test.

0101	Ahmet Aydilek, Yunfeng Zhang Tu 12:30pm - 1:30pm W 1:00pm - 4:00pm	Seats (Total: 15) CHE 2116 EGL 0110E	 Lab
0201	Yunfeng Zhang, Ahmet Aydilek Tu 12:30pm - 1:30pm W 1:00pm - 4:00pm	Seats (Total: 15) MTH 0401 MTH 0104	 Lab

ENCE454 **Design of Concrete Structures**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE353; and permission of ENGR-Civil & Environmental Engineering department. Formerly: ENCE451.

Combined bending and compression, development and anchorage of reinforcement, deflections, design of slabs including one-way and two-way, design of footings, retaining walls, introduction to prestressed concrete, design of multi-story buildings.

0101	Amde Amde MWF 11:00am - 11:50am	Seats (Total: 45) ITV 1100
0201	Amde Amde MWF 10:00am - 10:50am	Seats (Total: 35) EGR 2154

ENCE466 **Design of Civil Engineering Systems**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

CORE: CS

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Senior standing. Additional information: Must be taken in the semester in which the student graduates.

A major civil engineering design experience that emphasizes development of student creativity, development and use of design methodologies, evaluation of alternate solutions, feasibility considerations, and detailed system descriptions. Realistic design constraints including economic factors, safety, aesthetics, and reliability will be imposed. Students will work in design project groups and be required to exercise oral and written communication skills.

Restricted to students in the College of Engineering.

0101	Russell Anderson Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 40) PHY 0405 EGR 0135

ENCE470 **Highway Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENCE302 and ENCE370; and permission of ENGR-Civil & Environmental Engineering department.

Highway location and design, highway engineering economics, traffic engineering, traffic measurement devices and technologies. Includes discussion of technological advances in traffic flow and capacity, such as signal systems, corridor control, automatic driver information, incident detection and autonomous vehicle operation.

Restricted to students in the College of Engineering.

0101	ShiaauLir Wang	Seats (Total: 40)
	MWF 10:00am - 10:50am	ITV 1100

ENCE489 **Special Problems in Civil Engineering**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE489B **Special Problems in Civil Engineering; Land-Atmosphere Interactions in Hydrology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

0101	Barton Forman	Seats (Total: 20)
	TuTh 4:00pm - 5:15pm	MTH 0106

ENCE602 **Project Procurement Management**

Credits: 3 Grading Method: Regular, Audit

Fundamental concepts and techniques for project acquisition and procurement are presented. Students are introduced to the PMBOK Guide six-step procurement process and expected to develop an in-depth understanding of project evaluation, planning, financing, contracting, negotiation, and procurement execution. It will also cover emerging methods, principles, and practices in infrastructure project procurement, including Public-Private Partnerships, Carbon project procurement, and Clean Development Mechanism.

PM01	Qingbin Cui	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Monday 7pm-8pm.	

ENCE603 **Management Science Applications in Engineering**

Credits: 3 Grading Method: Regular

Prerequisite: (ENCE302; or (ENME271 and ENME392)); and (MATH140 and MATH240). Or permission of instructor. Also offered as: ENCE603. Credit only granted for: ENME738, ENME741, or ENCE603. Formerly: ENME738.

The fundamentals of Management Science techniques in Project Management including: linear and integer programming, goal programming, multi-objective optimization, simulation, Analytic Hierarchy Process (AHP), deterministic and stochastic dynamic programming will be covered. Applications will be drawn from the Critical Path Method (CPM), resource management, and other areas of Project management.

0101	Steven Gabriel	Seats (Total: 25)
	Tu 2:00pm - 4:30pm	JMP 2217

ENCE610 **Fundamentals of Structural Analysis**

Credits: 3 Grading Method: Regular, Audit

Cartesian tensor notation. Linear forms of the general equilibrium, compatability, and constitutive equations. The calculus of variations. The principles of virtual work and complementary virtual work. Self-adjoint problem formulations.

0101	Peter Chang	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 3114

ENCE611 **Finite Element Methods**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE661.

Basic principles and fundamental concepts of the finite element method. Consideration of geometric and material nonlinearities, convergence, mesh gradation and computational procedures in analysis. Applications to plane stress and plane strain, plates and shells, eigenvalue problems, axisymmetric stress analysis, and other problems in civil engineering.

0101	Brian Phillips	Seats (Total: 25)
	MW 3:30pm - 4:45pm	CHM 0124

ENCE613 **Structural Dynamics**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE653.

Analysis of the dynamic response of structrues and structural component subjected to impact load, transient load, and ground excitations; study of single degree-of-freedom and multi degree-of-freedom systems in classical closed form solution and approximate numerical solution; solution in the frequency domain and the use of finite element method.

0101	Yunfeng Zhang W 5:00pm - 7:30pm	Seats (Total: 25) EGR 3114

ENCE620 Risk Analysis for Engineering

Credits: 3 Grading Method: Regular, Audit

Sources of hazards, definition of risk, system analysis, functional modeling and analysis techniques, probabilistic risk assessment procedure, risk methods, risk acceptance, assessment of failure likelihood, consequence assessment, risk benefit assessment, uncertainty surces and types, modeling uncertainty, risk analysis and decision making under uncertainty, collection of data, expert-opinion elicitation, human-machine interface and human factors engineering.

0101	Bilal Ayyub M 5:00pm - 7:30pm	Seats (Total: 20) EGR 3114

ENCE626 Web-based Project Management

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENCE662.

The use of IT tools, in particular the Web, is increasingly becoming th primary instrument for conducting the day-to-day tasks of engineering project management. Traditional client-server based technologies and applications can now be replaced by a web-centric, collaborative, electronic workplace. This course examines the use of Internet and Intranet based project management in the context of collaboration, decision making and information exchange, and presents a systematic understanding of the principle issues in Web based tools- ease of use, efficient decision making, and cost effectiveness. The course will use project case histories as part of a team project.

0101	Miroslaw Skibniewski M 6:30pm - 9:15pm	Seats (Total: 17) JMP 2120

PM01	Miroslaw Skibniewski Class time/details on ELMs *Videoconference will meet 8pm-9pm.*	Seats (Total: 30) ONLINE

ENCE627 **Project Risk Management**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed ENCE627.

Introduction to identifying, analyzing, assessing, and managing risks inherent to engineering projects. Includes: probability modeling, choice and value theory, schedule and cost risk, risk mitigation and transfer, and contract considerations of project risk. Examples are drawn from construction, software development, systems integration, and other large engineering projects; and cover probability basics, subjective probability, statistical data analysis, introduction to decision theory, Monte Carlo simulation, value of information, and risk-based decision making.

0101	Gregory Baecher Th 3:30pm - 6:00pm	Seats (Total: 25) JMP 2217

ENCE630 **Environmental and Water Resource Systems I**

Credits: 3 Grading Method: Regular, Audit

Application of statistical and systems engineering techniques in the analysis of information necessary for the design or characterization of environmental or hydrologic processes; emphasis on the fundamental considerations that control the design of information collection programs, data interpretation, and the evolution of simulation models used to support the decision-making process.

0101	Richard McCuen MWF 9:00am - 9:50am	Seats (Total: 20) CHE 2116

ENCE637 **Biological Principles of Environmental Engineering**

Credits: 3 Grading Method: Regular, Audit

An examination of biological principles directly affecting man and his environment, with particular emphasis on microbiological interactions in environmental engineering related to air, water and land systems; microbiology and biochemistry of aerobic and anaerobic treatment processes for aqueous wastes.

0101	Birthe Kjellerup TuTh 11:00am - 12:15pm	Seats (Total: 15) PLS 1180

ENCE650 **Process Dynamics in Environmental Systems**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENCE636.

The fundamentals of heterogeneous equilibria, rates of environmental reactions, and flow and material transport or presented. Applications of these principles will be presented to small and large scale environmental problems involving liquid, gas, and solid phases. Both natural and engineered environmental systems will be examined.

0101	Allen Davis	Seats (Total: 20)
	TuTh 9:30am - 10:45am	HBK 0108

ENCE651 **Chemistry of Natural Waters**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENCE633 or ENCE651. Formerly: ENCE633.

Application of principles from chemical thermodynamics and kinetics to the study and interpretation of the chemical composition of natural waters is rationalized by considering metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions which occur in natural water environments.

Also offered as MEES698@.

0101	Alba Torrents	Seats (Total: 20)
	TuTh 8:00am - 9:15am	EGR 1102

ENCE661 **Project Cost Accounting and Finance**

Credits: 3 Grading Method: Regular, Audit

This course reviews the fundamentals of accounting; examines project cost accounting principles, applications, and impact on profitability; examines the principles of activity based costing; covers the elements involved in cash management; introduces the framework for how projects are financed and the potential impact financing has on the projects; and a framework for evaluating PC based systems and what resources are needed for an effective project cost system.

0101	James Myers	Seats (Total: 54)
	W 3:30pm - 6:10pm	JMP 2121

PM01	James Myers	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	Weekly video conferences Sunday 8pm-9pm.	

ENCE662 **Introduction to Project Management**

Credits: 3 Grading Method: Regular, Audit

Introduction to project management including: overview and concepts of project management (principles, body of knowledge, strategies); planning successful projects (defining, specifying, delivery options, scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management); and closeout(performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management).

0101	John Cable	Seats (Total: 54)
	W 6:20pm - 9:00pm	JMP 2121
PM01	John Cable	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Thursday 7:00am to 8:00am or Thursday 8:00pm to 9:00pm.	

ENCE664 **Legal Aspects of Engineering Design and Construction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

Examines ways in which the legal system affects the design and construction process. Focuses on contract types and the relationships between the parties in different delivery systems. Covers basics of procurement protocols along with negotiating techniques and strategies. Topics include contract law, the relationships between the parties, tort and negligence law, and the statutory principles affecting construction.

Weekly video conference after 7:50 p.m.

PM01	Mark Groff	Seats (Total: 35)
	Class time/details on ELMs	ONLINE
	Weekly video conference: Tuesday 8-9 p.m.	

ENCE665 **Management of Project Teams**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Experience has shown that really excellent project managers are not only technically competent but that they have above average skills in human relations and communications. The course will prepare project managers to optimize the utilization of their most important resource: people. Relying primarily on a wide range of research and experience in the Project Team, this course will help guide project managers in building the other skills needed to be truly successful in the competitive Project Team.

0101	Jocelyn Davis	Seats (Total: 29)
	Th 6:00pm - 8:30pm	JMP 2222

ENCE666 **Cost Engineering and Control**

Credits: 3

Grading Method: Regular, Audit

Analytic techniques to estimate and control project costs, including site investigation, quantity takeoff, work analysis and bid preparation. Systematic cost control as related to job production and historical data.

PM01	Neil Schulman	Seats (Total: 30)
	Meets August 31, 2015 - December 4, 2015	
	Class time/details on ELMs	ONLINE
	Weekly video conferences: Wednesday 7:00-7:50.	

ENCE667 **Project Performance Measurement**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

Examination of various techniques and models used to measure the performance of projects. Topics will include: Critical Path Method (CPM), Program Evaluation Review Technique (PERT), Gantt charts, project crashing, resource management, capital allocation, forecasting, hypothesis testing, regression analysis, learning curve analysis, goal programming, Monte Carlo simulation, the Analytic Hierarchy Process (AHP), Pareto optimality and tradeoff curves as well as basics in linear programming and uncertainity modeling.

PM01	Gregory Baecher **Meets August 31, 2015 - December 4, 2015** Class time/details on ELMs *Weekly video conferences: Thursday 8:00-9:00am or 7:00-8:00pm.*	Seats (Total: 30) ONLINE

ENCE670 **Highway Traffic Characteristics and Measurements**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENCE470; or permission of instructor.

The study of the fundamental traits and behavior patterns of road users and their vehicles in traffic. The basic characteristics of the pedestrian, the driver, the vehicle, traffic volume and speed, stream flow and intersection operation, parking, and accidents.

0101	Gang-Len Chang Th 12:30pm - 3:10pm	Seats (Total: 29) JMP 2217

ENCE672 **Regional Transportation Planning**

Credits: 3 Grading Method: Regular, Audit

Factors involved and the components of the process for planning statewide and regional transportation systems, encompassing all modes. Transportation planning studies, statewide traffic models, investment models, programming and scheduling.

0101	Paul Schonfeld Tu 5:00pm - 7:30pm	Seats (Total: 29) JMP 2217

ENCE677 **OR Models for Transportation Systems Analysis**

Credits: 3 Grading Method: Regular, Audit

Fundamental skills and concepts of the quantitative techniques of operations research including: mathematical modeling, linear programming, integer programming, network optimization (shortest paths, minimum spanning trees, minimum cost network flows, maximum flows), heuristics, and basics of probabilistic modeling. Emphasis on the application of these techniques to problems arising in transportation.

0101	Ali Haghani TuTh 3:30pm - 4:45pm	Seats (Total: 25) CSS 2416

ENCE681 **Freight Transportation Analysis**

Credits: 3 Grading Method: Regular, Audit

Application of operations research and system analysis methods to freight transportation systems. Cost and output analysis, terminal location, freight transportation demand models, freight transportation network equilibrium models and analytic models for analyzing the operations of rail, motor carrier, water carrier and air cargo systems.

0101	Paul Schonfeld	Seats (Total: 20)
	M 5:00pm - 7:30pm	EGR 2154

ENCE688D **Advanced Topics in Civil Engineering; Sensor Systems**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Also offered as ENSE698E.

0101	David Lovell, Pamela Abshire	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	EGR 3102

ENCE688I **Advanced Topics in Civil Engineering; Discrete Choice Analysis**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Cinzia Cirillo	Seats (Total: 39)
	MW 2:30pm - 3:45pm	JMP 2222

ENCE688J **Advanced Topics in Civil Engineering; Contemporary Water Resources Management**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

Also offered as PUAF798J. Credit will granted for one of the following: ENCE688J, ENPP620, or PUAF798J. Review of current and future uses/demands for water resources and development of understanding of policy, program and project evaluation for integrated planning and management of these resources. Examination of the theory and practice of contemporary tradeoff analysis among engineering, socio-cultural, economic, political, and environmental costs and benefits of water use.

0101	Gerald Galloway	Seats (Total: 24)
	Tu 5:00pm - 7:30pm	EGR 3102

ENCE689 **Seminar**

Credits: 1-16 Grading Method: Regular, Audit

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE689B **Seminar; Land-Atmosphere Interactions in Hydrology**

Credits: 3 Grading Method: Regular, Audit

0101	Barton Forman	Seats (Total: 20)
	TuTh 4:00pm - 5:15pm	MTH 0106

ENCE725 **Probabilistic Optimization**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ENME725. Credit only granted for: ENME725 or ENCE725.

Provide an introduction to optimization under uncertainty. Chance-constrained programming, reliability programming, value of information, two stage problems with recourse, decomposition methods, nonlinear and linear programming theory, probability theory. The objectives of this course are to provide understanding for studying problems that involve optimization under uncertainty, learn about various stochastic programming formulations (chance constrained programs, two stage methods with recourse, etc.) relevant to engineering and economic settings, present theory for solutions to such problems, and present algorithms to solve these problems.

0101	Steven Gabriel	Seats (Total: 15)
	M 2:00pm - 4:45pm	SPH 0303

ENCE741 **Earth Retaining Structures**

Credits: 3 Grading Method: Regular, Audit

Introduction to types and uses of earth retaining structures, and lateral earth pressure concepts and theories. Analysis and design of retaining walls and shoring structures and their bracing systems. These include conventional retaining walls, mechanically stabilized earth walls, cantilever and anchored sheet piling, cellular cofferdams, braced cuts, soil nailing, and the design of tiebacks and anchors. Load and resistance factor design concept will be presented.

0101	Mohamed Aggour Th 5:00pm - 7:30pm	Seats (Total: 25) EGR 2154

ENCE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCH Engineering, Chemical Fall 2015

ENCH609 **Graduate Seminar**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

0101	Dongxia Liu Tu 11:00am - 12:15pm	Seats (Total: 35) CHE 2108

ENCH610 **Chemical Engineering Thermodynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHBE301; and CHBE302. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Advanced application of the general thermodynamic methods to chemical engineering problems. First and second law consequences; estimation and correlation of thermodynamic properties; phase and chemical reaction equilibria.

0101	Mohammad Soltanieh TuTh 3:30pm - 4:45pm	Seats (Total: 35) PLS 1117

ENCH620 **Methods of Engineering Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH246; and CHBE250. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Application of selected mathematical techniques to the analysis and solution of engineering problems; included are the applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to such problems as unsteady heat transfer, transient phenomena in mass transfer operations, stagewise processes, chemical reactors, process control, and nuclear reactor physics.

0101	Nam Sun Wang TuTh 5:00pm - 6:15pm	Seats (Total: 35) CHE 2118

ENCH648 **Special Problems in Chemical Engineering**

(Perm req)

Credits: 1-16 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENCH648L **Special Problems in Chemical Engineering; Photovoltaics: Solar Energy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 10) JMP 2216
HT01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 10) Location: TBA

ME01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 15) ONLINE
SG01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 10) Location: TBA
SM01	Raymond Adomaitis TuTh 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA

ENCH648M **Special Problems in Chemical Engineering; Metabolic Pathway Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Also offered as BIOE489L, BIOE689L, and ENCH468M. Credit will be granted for one of the following: BIOE489L, BIOE689L, ENCH468M, or ENCH648M.

0101	Ganesh Sriram MW 5:00pm - 6:15pm	Seats (Total: 10) CHE 2136

ENCH648X **Special Problems in Chemical Engineering; Multi-scale and Multiphase Flows**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Richard Calabrese MWF 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 30) CHE 2136 CHE 2118	 Discussion

ENCH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENCH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCH899 **Doctoral Dissertation Research; Chemical Engineering**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCO Engineering, Cooperative Education — Fall 2015

ENCO099 **Co-Op/Intern Work Experience**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.

If dropping course, see Withdrawal and Refund of Fees - Special Refund Deadlines in the Financial Information section of the Schedule of Classes.

0101	Heidi Sauber, Veronica Perrigan Contact instructor or department for details.	Seats (Total: 200)	

ENEE Electrical & Computer Engineering — Fall 2015

ENEE101 **Introduction to Electrical & Computer Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: MATH140. And corequisite: ENEE140 or CMSC131; or a score of 5 on the A Java AP exam; or a score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and students cannot enroll in ENEE101 and ENES100 in the same semester.

An exploration of topics within Electrical & Computer Engineering (ECE). Students will be introduced to key elements of both the Electrical Engineering and Computer Engineering curriculum, including: circuits, computing systems and software, communications and controls, electrodynamics and waves, microelectronics, signal processing, and power systems.

0101	Romel Gomez Th 4:00pm - 5:15pm MW 8:00am - 9:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0102	Romel Gomez Th 4:00pm - 5:15pm MW 10:00am - 11:50am	Seats (Total: 12) EGR 1202 AVW 1344	 Lab
0103	Romel Gomez Th 4:00pm - 5:15pm MW 12:00pm - 1:50pm	Seats (Total: 12) EGR 1202 AVW 1344	 Lab

0105	Romel Gomez Th 4:00pm - 5:15pm TuTh 8:00am - 9:50am	Seats (Total: 12) EGR 1202 AVW 1344	Lab
0106	Romel Gomez Th 4:00pm - 5:15pm TuTh 10:00am - 11:50am	Seats (Total: 12) EGR 1202 AVW 1344	Lab
0107	Romel Gomez Th 4:00pm - 5:15pm TuTh 12:00pm - 1:50pm	Seats (Total: 12) EGR 1202 AVW 1344	Lab
0108	Romel Gomez Th 4:00pm - 5:15pm TuTh 2:00pm - 3:50pm	Seats (Total: 12) EGR 1202 AVW 1344	Lab

ENEE140 **Introduction to Programming Concepts for Engineers**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to the programming environment: editing, compiling, UNIX, data types and variable scope; program selection, formatted/unformatted input/output, repetition, functions, arrays and strings.

0101	Gang Qu Tu 12:30pm - 1:45pm WF 9:00am - 9:50am	Seats (Total: 10) KEB 1110 AVW 2446	Discussion
0102	Gang Qu Tu 12:30pm - 1:45pm WF 10:00am - 10:50am	Seats (Total: 10) KEB 1110 AVW 2446	Discussion
0103	Gang Qu Tu 12:30pm - 1:45pm WF 11:00am - 11:50am	Seats (Total: 10) KEB 1110 AVW 2446	Discussion
0104	Gang Qu Tu 12:30pm - 1:45pm WF 12:00pm - 12:50pm	Seats (Total: 10) KEB 1110 AVW 2446	Discussion

0105	Gang Qu Tu 12:30pm - 1:45pm WF 1:00pm - 1:50pm	Seats (Total: 10) KEB 1110 AVW 2446	 Discussion
0106	Gang Qu Tu 12:30pm - 1:45pm WF 2:00pm - 2:50pm	Seats (Total: 10) KEB 1110 AVW 2446	 Discussion

ENEE148A **Special Topics in Electrical Engineering; Programming Elements for Electrical Engineers**

(Perm req)

Credits: 3 Grading Method: Regular

Introductory Electrical Engineering topic selected as announced every semester.

Prerequisite: Permission of Department. A problem-based introduction to C programming in the context of microcontroller applications. This course provides an introduction to C-programming in the context of simple electrical engineering applications and also teaches elements of sensor and actuator operation, communications, control, and circuit theory.

0101	Wesley Lawson TuTh 10:00am - 10:50am F 1:00pm - 3:50pm	Seats (Total: 10) ITV 1100 AVW 1334	 Lab
0102	Wesley Lawson TuTh 10:00am - 10:50am W 8:00am - 10:50am	Seats (Total: 10) ITV 1100 AVW 1334	 Lab
0103	Wesley Lawson TuTh 10:00am - 10:50am F 10:00am - 12:50pm	Seats (Total: 10) ITV 1100 AVW 1334	 Lab

ENEE150 **Intermediate Programming Concepts for Engineers**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. And ENEE140 or CMSC131; or score of 5 on the A Java AP exam; or score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Corequisite: MATH140. Restriction: Must be in Engineering: Electrical program. Credit only granted for: ENEE114 or ENEE150. Formerly: ENEE114.

Advanced programming concepts: coding conventions and style; pointers; dynamic memory allocation and data structures; linked lists; graphs; abstract data types; object-oriented design. There will be team-based software projects and group presentations.

0101	Donald Yeung TuTh 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 12) CCC 1205 AVW 1442	Discussion
0102	Donald Yeung TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 12) CCC 1205 AVW 1442	Discussion
0103	Donald Yeung TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 12) CCC 1205 AVW 1442	Discussion
0104	Donald Yeung TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 12) CCC 1205 AVW 1442	Discussion
0105	Donald Yeung TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 12) CCC 1205 AVW 1442	Discussion

ENEE200 **Social and Ethical Dimensions of Engineering Technology**

Credits: 3 Grading Method: Regular CORE: IE

Restriction: Sophomore standing or higher.

Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology. Special emphasis is placed on the interplay of diverse and often conflicting personal and collective values in both the development and implementation of new technologies. These subjects touch on many areas of interest including ethics, politics, business, the law, and society.

0101	Kazuo Nakajima MW 1:00pm - 1:50pm F 10:00am - 11:50am	Seats (Total: 16) CHE 2108 EGR 1110	Discussion
0102	Kazuo Nakajima MW 1:00pm - 1:50pm F 11:00am - 12:50pm	Seats (Total: 16) CHE 2108 CHE 2116	Discussion
0103	Kazuo Nakajima MW 1:00pm - 1:50pm F 12:00pm - 1:50pm	Seats (Total: 16) CHE 2108 EGR 1102	Discussion

0104	Kazuo Nakajima MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 16) CHE 2108 EGR 3114	Discussion
0105	Kazuo Nakajima MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	Seats (Total: 16) CHE 2108 EGR 3102	Discussion
0201	Nicole Mogul TuTh 3:30pm - 4:20pm W 2:00pm - 3:50pm	Seats (Total: 16) KEB 1110 EGR 3111	Discussion
0202	Nicole Mogul TuTh 3:30pm - 4:20pm F 11:00am - 12:50pm	Seats (Total: 16) KEB 1110 EGR 3111	Discussion
0203	Nicole Mogul TuTh 3:30pm - 4:20pm M 2:00pm - 3:50pm	Seats (Total: 16) KEB 1110 ANS 0402	Discussion
0204	Nicole Mogul TuTh 3:30pm - 4:20pm F 1:00pm - 2:50pm	Seats (Total: 16) KEB 1110 EGR 3111	Discussion
0205	Nicole Mogul TuTh 3:30pm - 4:20pm F 11:00am - 12:50pm	Seats (Total: 16) KEB 1110 EGR 3102	Discussion

ENEE205 **Electric Circuits**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in PHYS260; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE204 or ENEE205. Formerly: ENEE204.

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	CHE 2108	
	Tu 12:00pm - 1:50pm	AVW 1356	Lab
	Tu 11:00am - 11:50am	AVW 1356	Discussion
0102	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	CHE 2108	
	Tu 9:00am - 10:50am	AVW 1356	Lab
	Tu 8:00am - 8:50am	AVW 1356	Discussion
0103	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	CHE 2108	
	Th 12:00pm - 1:50pm	AVW 1356	Lab
	Th 11:00am - 11:50am	AVW 1356	Discussion
0104	Christopher Davis	Seats (Total: 12)	
	MW 2:00pm - 3:15pm	CHE 2108	
	Th 9:00am - 10:50am	AVW 1356	Lab
	Th 8:00am - 8:50am	AVW 1356	Discussion
0201	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 1108	
	M 12:00pm - 1:50pm	AVW 1356	Lab
	M 11:00am - 11:50am	AVW 1356	Discussion
0202	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 1108	
	M 3:00pm - 4:50pm	AVW 1356	Lab
	M 2:00pm - 2:50pm	AVW 1356	Discussion
0203	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 1108	
	W 3:00pm - 4:50pm	AVW 1356	Lab
	W 2:00pm - 2:50pm	AVW 1356	Discussion
0204	Romel Gomez	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	EGR 1108	
	F 9:00am - 10:50am	AVW 1356	Lab
	F 8:00am - 8:50am	AVW 1356	Discussion

ENEE222 Elements of Discrete Signal Analysis

(Perm req) Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and permission of ENGR-Electrical & Computer Engineering department. And minimum grade of C- in ENEE140; or minimum grade of C- in CMSC131. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE222, ENEE241, or MATH242. Formerly: ENEE241.

Discrete-time and continuous-time signals, sampling. Linear transformers, orthogonal projections. Discrete Fourier Transform and its properties. Fourier Series. Introduction to discrete-time linear filters in both time and frequency domains.

0101	Gilmer Blankenship	Seats (Total: 22)	
	MW 12:30pm - 1:45pm	EGR 1108	
	Th 9:00am - 9:50am	KEB 2107	Lab
	Tu 9:00am - 9:50am	KEB 2107	Discussion
0102	Gilmer Blankenship	Seats (Total: 22)	
	MW 12:30pm - 1:45pm	EGR 1108	
	Th 11:00am - 11:50am	KEB 2107	Lab
	Tu 11:00am - 11:50am	KEB 2107	Discussion
0103	Gilmer Blankenship	Seats (Total: 22)	
	MW 12:30pm - 1:45pm	EGR 1108	
	Th 12:00pm - 12:50pm	KEB 2107	Lab
	Tu 12:00pm - 12:50pm	KEB 2107	Discussion
0201	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 3:30pm - 4:45pm	SPH 1301	
	F 10:00am - 10:50am	KEB 2107	Lab
	W 10:00am - 10:50am	KEB 2107	Discussion
0202	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 3:30pm - 4:45pm	SPH 1301	
	F 11:00am - 11:50am	KEB 2107	Lab
	W 11:00am - 11:50am	KEB 2107	Discussion
0203	Adrianos Papamarcou	Seats (Total: 22)	
	TuTh 3:30pm - 4:45pm	SPH 1301	
	F 9:00am - 9:50am	KEB 2107	Lab
	W 9:00am - 9:50am	KEB 2107	Discussion

ENEE244 Digital Logic Design

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.

Engineering College only (04).

0101	Dana Dachman-Soled MW 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 12) EGR 1108 MTH 2300	 Discussion
0102	Dana Dachman-Soled MW 3:30pm - 4:45pm Th 1:00pm - 1:50pm	Seats (Total: 12) EGR 1108 CHE 2116	 Discussion
0103	Dana Dachman-Soled MW 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 12) EGR 1108 JMP 1109	 Discussion
0104	Dana Dachman-Soled MW 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 12) EGR 1108 EGR 3111	 Discussion
0105	Dana Dachman-Soled MW 3:30pm - 4:45pm Th 12:00pm - 12:50pm	Seats (Total: 12) EGR 1108 EGR 0108	 Discussion
0106	Dana Dachman-Soled MW 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 12) EGR 1108 JMP 1109	 Discussion
0201	Charles Silio TuTh 11:00am - 12:15pm M 9:00am - 9:50am	Seats (Total: 12) EGR 1108 CHE 2140	 Discussion

0202	Charles Silio TuTh 11:00am - 12:15pm M 10:00am - 10:50am	Seats (Total: 12) EGR 1108 EGR 3111	Discussion
0203	Charles Silio TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 12) EGR 1108 EGR 3111	Discussion
0204	Charles Silio TuTh 11:00am - 12:15pm M 12:00pm - 12:50pm	Seats (Total: 12) EGR 1108 EGR 3111	Discussion
0205	Charles Silio TuTh 11:00am - 12:15pm M 1:00pm - 1:50pm	Seats (Total: 12) EGR 1108 EGR 3111	Discussion
0206	Instructor: TBA	Seats (Total: 12)	

ENEE245 **Digital Circuits and Systems Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244. And minimum grade of C- in ENEE150; or minimum grade of C- in CMSC132. And permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Introduction to basic measurement techniques and electrical laboratory equipment (power supplies, oscilloscopes, voltmeters, etc.). Design, construction, and characterization of digital circuits containing logic gates, sequential elements, oscillators, and digital integrated circuits. Introduction to digital design and simulation with the Verilog Hardware Description Language (HDL).

0101	Manoj Franklin M 10:00am - 10:50am M 2:00pm - 4:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0102	Manoj Franklin M 10:00am - 10:50am Tu 8:00am - 10:50am	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0103	Manoj Franklin M 10:00am - 10:50am W 11:00am - 1:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab

0104	Manoj Franklin M 10:00am - 10:50am Th 11:00am - 1:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0105	Manoj Franklin M 10:00am - 10:50am F 2:00pm - 4:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0106	Manoj Franklin M 10:00am - 10:50am Tu 2:00pm - 4:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0201	Manoj Franklin W 10:00am - 10:50am M 8:00am - 10:50am	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0202	Manoj Franklin W 10:00am - 10:50am W 2:00pm - 4:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0203	Manoj Franklin W 10:00am - 10:50am Th 2:00pm - 4:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0204	Manoj Franklin W 10:00am - 10:50am M 11:00am - 1:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0205	Manoj Franklin W 10:00am - 10:50am Tu 11:00am - 1:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab
0206	Manoj Franklin W 10:00am - 10:50am F 11:00am - 1:50pm	Seats (Total: 12) KEB 1110 AVW 1450	Lab

ENEE303 **Analog and Digital Electronics**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE302 or ENEE303.

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Manoj Franklin MW 3:30pm - 4:45pm F 9:00am - 9:50am	Seats (Total: 20) CHE 2110 CHE 2145	Discussion
0102	Manoj Franklin MW 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 20) CHE 2110 EGR 1102	Discussion
0103	Manoj Franklin MW 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 20) CHE 2110 EGR 2154	Discussion
0201	Agisilaos Iliadis TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 25) ITV 1100 EGR 3114	Discussion
0202	Agisilaos Iliadis TuTh 11:00am - 12:15pm M 12:00pm - 12:50pm	Seats (Total: 24) ITV 1100 EGR 1102	Discussion
0301	Danilo Romero TuTh 9:30am - 10:45am M 9:00am - 9:50am	Seats (Total: 20) CHE 2136 EGR 3102	Discussion
0302	Danilo Romero TuTh 9:30am - 10:45am M 10:00am - 10:50am	Seats (Total: 20) CHE 2136 EGR 3102	Discussion

ENEE303H **Analog and Digital Electronics**

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE302 or ENEE303.

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Robert Newcomb TuTh 11:00am - 12:15pm M 10:00am - 10:50am	Seats (Total: 20) EGR 3114 PLS 1164	 Discussion

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ENEE307 **Electronic Circuits Design Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: ENEE303; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE 306 or ENEE 307.

Students will design and test analog and digital circuits at the transistor level. FETs and BJTs will be covered. The laboratory experiments will be tightly coordinated with ENEE303 materials.

0101	Danilo Romero W 9:00am - 9:50am M 2:00pm - 5:00pm	Seats (Total: 12) JMP 3201 AVW 1330	 Lab
0102	Danilo Romero W 9:00am - 9:50am M 11:00am - 2:00pm	Seats (Total: 12) JMP 3201 AVW 1330	 Lab
0103	Danilo Romero W 9:00am - 9:50am Tu 8:00am - 11:00am	Seats (Total: 12) JMP 3201 AVW 1330	 Lab
0104	Danilo Romero W 9:00am - 9:50am M 8:00am - 11:00am	Seats (Total: 12) JMP 3201 AVW 1330	 Lab
0105	Danilo Romero W 9:00am - 9:50am Th 8:00am - 11:00am	Seats (Total: 12) JMP 3201 AVW 1330	 Lab

0106	Danilo Romero W 9:00am - 9:50am F 8:00am - 11:00am	Seats (Total: 12) JMP 3201 AVW 1330	 Lab
0107	Danilo Romero W 9:00am - 9:50am F 11:00am - 2:00pm	Seats (Total: 12) JMP 3201 AVW 1330	 Lab
0108	Danilo Romero W 9:00am - 9:50am W 2:00pm - 5:00pm	Seats (Total: 12) JMP 3201 AVW 1330	 Lab

ENEE313 **Introduction to Device Physics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE312 or ENEE313.

Basic physics of devices including fields in solids, crystal structure, properties of electrons and holes. Current flow in Si using drift-diffusion model. Properties of the pn junction. Properties of devices including BJTs, FETs and their physical characteristics.

0101	Martin Peckerar TuTh 9:30am - 10:45am M 2:00pm - 2:50pm	Seats (Total: 25) CHE 2118 EGR 3102	 Discussion
0102	Martin Peckerar TuTh 9:30am - 10:45am M 3:00pm - 3:50pm	Seats (Total: 24) CHE 2118 EGR 3102	 Discussion

ENEE322 **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

ENEE majors (09090) only.

0101	Sennur Ulukus MW 12:30pm - 1:45pm Tu 9:00am - 9:50am	Seats (Total: 25) KEB 1110 JMZ 0205	 Discussion
0102	Sennur Ulukus MW 12:30pm - 1:45pm Tu 10:00am - 10:50am	Seats (Total: 25) KEB 1110 PLS 1113	 Discussion
0103	Sennur Ulukus MW 12:30pm - 1:45pm Tu 11:00am - 11:50am	Seats (Total: 25) KEB 1110 KEY 0123	 Discussion
0201	Adrianos Papamarcou TuTh 12:30pm - 1:45pm W 9:00am - 9:50am	Seats (Total: 25) EGR 1108 EGR 1102	 Discussion
0202	Adrianos Papamarcou TuTh 12:30pm - 1:45pm W 10:00am - 10:50am	Seats (Total: 25) EGR 1108 EGR 3102	 Discussion
0203	Adrianos Papamarcou TuTh 12:30pm - 1:45pm W 10:00am - 10:50am	Seats (Total: 25) EGR 1108 EGR 3114	 Discussion
0301	Instructor: TBA	Seats (Total: 20)	

ENEE322H **Signal and System Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

Restricted to ENEE Honors students only.

0101	Richard La TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 25) EGR 3114 EGR 2154	 Discussion

ENEE324 **Engineering Probability**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering and Computer Engineering majors may not substitute STAT400 for ENEE324. These courses are not interchangeable, consult your program requirements or advisor for what is acceptable toward your program of study.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

ENEE majors (09090) only.

0101	Anthony Ephremides MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 20) EGR 1104 EGR 1102	 Discussion
0102	Anthony Ephremides MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 20) EGR 1104 MTH 0307	 Discussion
0201	Richard La TuTh 3:30pm - 4:45pm W 9:00am - 9:50am	Seats (Total: 20) CHE 2118 EGR 3114	 Discussion
0202	Richard La TuTh 3:30pm - 4:45pm W 10:00am - 10:50am	Seats (Total: 20) CHE 2118 EGR 2116	 Discussion

ENEE350 **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250. Additional information: Electrical Engineering and Computer Engineering majors may not substitute CMSC311 for ENEE350. Not open to students who have completed ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

ENEE majors (09090) only

0101	Yavuz Oruc MW 11:00am - 12:15pm Th 10:00am - 10:50am	Seats (Total: 25) EGR 1108 HBK 0123	Discussion
0102	Yavuz Oruc MW 11:00am - 12:15pm Th 1:00pm - 1:50pm	Seats (Total: 25) EGR 1108 SPH 0302	Discussion
0103	Yavuz Oruc MW 11:00am - 12:15pm Th 10:00am - 10:50am	Seats (Total: 25) EGR 1108 CHM 0127	Discussion
0201	Charles Silio TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 20) EGR 1104 CHE 2116	Discussion
0202	Charles Silio TuTh 2:00pm - 3:15pm W 12:00pm - 12:50pm	Seats (Total: 20) EGR 1104 ANS 0402	Discussion
0203	Instructor: TBA	Seats (Total: 20)	

ENEE350H **Computer Organization**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250. Additional information: Electrical Engineering and Computer Engineering majors may not substitute CMSC311 for ENEE350. Not open to students who have completed ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

For general honors students only.

0101	Ankur Srivastava	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	EGR 2145	
	M 1:00pm - 1:50pm	EGR 2154	Discussion

ENEE359F **Intermediate Topics in Computer Engineering; Advanced FPGA System Design using Verilog**

(Perm req)

Credits: 3 Grading Method: Regular

Selected intermediate level topics in computer engineering.

Based on the skills developed in ENEE245, students will further expand their skill set by working on more advanced digital system design using Verilog hardware description language (HDL) in an industry-standard design environment. They will implement real-world designs in a field programmable gate array (FPGA) as well as test and optimize the FPGA-implemented systems. Students will also work in teams on medium- scale digital system design projects and make oral presentations and written reports.

0101	Kazuo Nakajima	Seats (Total: 12)	
	Tu 3:30pm - 4:45pm	AVW 2446	
	Th 2:00pm - 4:50pm	AVW 2446	Lab

ENEE380 **Electromagnetic Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH241, PHYS270, and PHYS271; and completion of all lower-division technical courses in the EE curriculum; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

ENEE majors (09090) only.

0101	Leonard Taylor	Seats (Total: 16)	
	MW 2:00pm - 3:15pm	EGR 1108	
	Tu 9:00am - 9:50am	PLS 1113	Discussion

0102	Leonard Taylor MW 2:00pm - 3:15pm Tu 10:00am - 10:50am	Seats (Total: 16) EGR 1108 EGR 1102	 Discussion
0103	Leonard Taylor MW 2:00pm - 3:15pm Tu 11:00am - 11:50am	Seats (Total: 20) EGR 1108 CHM 0119	 Discussion
0201	Julius Goldhar TuTh 3:30pm - 4:45pm W 11:00am - 11:50am	Seats (Total: 22) CSI 2117 EGR 3114	 Discussion
0202	Julius Goldhar TuTh 3:30pm - 4:45pm W 1:00pm - 1:50pm	Seats (Total: 22) CSI 2117 EGR 2154	 Discussion

ENEE380H **Electromagnetic Theory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH241, PHYS270, and PHYS271; and completion of all lower-division technical courses in the EE curriculum; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

0101	Julius Goldhar TuTh 3:30pm - 4:45pm M 11:00am - 11:50am	Seats (Total: 20) CSI 2117 EGR 1102	 Discussion

ENEE381 **Electromagnetic Wave Propagation**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE380; and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

ENEE majors only (09090).

0101	Phillip Sprangle TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 22) CHE 2108 EGR 3114	 Discussion
0102	Phillip Sprangle TuTh 12:30pm - 1:45pm F 1:00pm - 1:50pm	Seats (Total: 22) CHE 2108 EGR 2116	 Discussion
0201	Danilo Romero TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 22) EGR 2116 EGR 1104	 Discussion

ENEE407 **Microwave-Circuits Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE381; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Experiments concerned with circuits constructed from microwave components providing practical experience in the design, construction and testing of such circuits. Projects include microwave filters and S-parameter design with applications of current technology.

0101	Kawthar Zaki Tu 11:00am - 11:50am Th 11:00am - 1:50pm	Seats (Total: 10) AVW 2446 AVW 2446	 Lab

ENEE408A **Capstone Design Project:Microprocessor-Based Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

0101	William Hawkins Th 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 12) EGR 1104	

ENEE408C **Capstone Design Project: Modern Digital System Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

0101	Shuvra Bhattacharyya	Seats (Total: 16)	
	Tu 3:30pm - 4:45pm	KEB 2107	
	Th 2:00pm - 4:50pm	KEB 2107	Lab

ENEE408E **Capstone Design Project: Optical System Design**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: ENEE 380. Co-requisite: ENEE381 (Capstone design for EE majors only).

Click here f or more information

0101	Christopher Davis	Seats (Total: 45)	
	MW 11:00am - 12:15pm	CHE 2118	

ENEE408I **Capstone Design Project: Autonomous Control of Interacting Robots**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

0101	Vijayanand Kowtha	Seats (Total: 12)	
	M 10:00am - 10:50am	JMP 1202	
	W 11:00am - 1:50pm	KEB 3209	Lab
0102	Vijayanand Kowtha	Seats (Total: 12)	
	M 10:00am - 10:50am	JMP 1202	
	W 2:00pm - 4:50pm	KEB 3209	Lab

ENEE411 **Advanced Analog and Digital Electronics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and must have permission of the department. Credit only granted for: ENEE411 or ENEE419A. Formerly: ENEE419A.

Examination of analog and digital device models for analysis, design, and simulation of transistor level electronic circuits, emphasizing Metal Oxide Silicon Field Effect Transistors (MOSFETs); fundamental single transistor configurations; frequency response, feedback, and stability of multi-transistor circuits, such as current mirrors, differential amplifiers, voltage references, operational amplifiers and data converters; complementary Metal Oxide Silicon (CMOS) implementations of static and clocked digital as well as mixed signal circuits.

0101	Timothy Horiuchi	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	EGR 0135	

ENEE416 **Integrated Circuit Fabrication Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE419J.

Characterization of wafers and fabrication steps. Oxide growth, lithography, dopant diffusion, and metal deposition and patterning will be discussed in the lectures and carried out in the lab in fabricating NMOS transistor circuits. The transistor characteristics will be measured and related to the fabrication parameters.

0101	Reza Ghodssi Th 11:00am - 12:15pm Tu 9:00am - 12:00pm	Seats (Total: 5) CHE 2145 KEB 2300	 Lab
0102	Reza Ghodssi Th 11:00am - 12:15pm W 12:30pm - 3:30pm	Seats (Total: 5) CHE 2145 KEB 2300	 Lab
0103	Reza Ghodssi Th 11:00am - 12:15pm M 12:30pm - 3:30pm	Seats (Total: 5) CHE 2145 KEB 2300	 Lab
0104	Reza Ghodssi Th 11:00am - 12:15pm W 9:00am - 12:00pm	Seats (Total: 5) CHE 2145 KEB 2300	 Lab
0105	Reza Ghodssi Th 11:00am - 12:15pm F 9:00am - 12:00pm	Seats (Total: 5) CHE 2145 KEB 2300	 Lab

ENEE419R **Topics in Microelectronics; Renewable Energy**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in microelectronics.

Credit will be granted for only one of the following: ENEE419R or ENEE498R.

0101	Alireza Khaligh MW 12:30pm - 1:45pm	Seats (Total: 45) CHE 2118	

ENEE420 **Communication Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE324; and completion of all lower-division technical courses in the EE curriculum.

Fourier series, Fourier transforms and linear system analysis; random signals, autocorrelation functions and power spectral densities; analog communication systems: amplitude modulation, single-sideband modulation, frequency and phase modulation, sampling theorem and pulse-amplitude modulation; digital communication systems pulse-code modulation, phase-shift keying, differential phase shift keying, frequency shift keying; performance of analog and digital communication systems in the presence of noise.

ENEE majors (09090) only.

0101	Armand Makowski	Seats (Total: 40)
	MW 11:00am - 12:15pm	EGR 1104

ENEE425 **Digital Signal Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Sampling as a modulation process; aliasing; the sampling theorem; the Z-transform and discrete-time system analysis; direct and computer-aided design of recursive and nonrecursive digital filters; the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT); digital filtering using the FFT; analog-to-digital and digital-to analog conversion; effects of quantization and finite-word-length arithmetic.

ENEE majors (09090) only.

0101	KJ Ray Liu	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	CHE 2136

ENEE426 **Communication Networks**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE324; and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in Engineering: Electrical program.

The main design issues associated with computer networks, satellite systems, radio nets, and general communication networks. Application of analytical tools of queuing theory to design problems in such networks. Review of proposed architectures and protocols.

0101	Mark Shayman TuTh 9:30am - 10:45am	Seats (Total: 35) JMP 2202	

ENEE428 **Communications Design Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

EE capstone design course. Exploring the signal processing and communication systems theoretical concepts presented in ENEE 420 Communication Systems and ENEE 425 Digital Signal Processing by implementing them on actual DSP based hardware in real time.

Co-requisite: ENEE420 or ENEE425.

0101	Steven Tretter W 10:00am - 10:50am F 9:00am - 12:00pm	Seats (Total: 8) EGR 1110 AVW 1366	 Lab
0102	Steven Tretter W 10:00am - 10:50am W 2:00pm - 5:00pm	Seats (Total: 8) EGR 1110 AVW 1366	 Lab

ENEE440 **Microprocessors**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Microprocessor architectures, instruction sets, and applications. Bus structures, memory, I/O interfacing. Assembly language programming, LSI device configuration, and the embedding of microprocessors in systems.

ENEE majors only (09090).

0101	William Hawkins TuTh 11:00am - 12:15pm	Seats (Total: 30) EGR 2154	

ENEE445 **Computer Laboratory**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in ENEE350; and must have earned a minimum grade of regular (letter) C- in all 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

This laboratory course focuses on the hardware/software interface in computer systems. Hand-on experiments are used to teach design, construction, analysis, and measurement of both hardware and software for embedded systems. Projects emphasize using microcontrollers for control, sensing, and communication through various I/O devices.

0101	William Hawkins	Seats (Total: 12)	
	Tu 2:00pm - 2:50pm	CHE 2116	
	Th 2:00pm - 5:00pm	AVW 1454	Lab

ENEE446 **Digital Computer Design**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower-division technical courses in the EE curriculum.

Hardware design of digital computers. Arithmetic and logic units, adders, multipliers and dividers. Floating-point arithmetic units. Bus and register structures. Control units, both hardwired and microprogrammed. Index registers, stacks, and other addressing schemes. Interrupts, DMA and interfacing.

ENEE majors (09090) only.

0101	Rajeev Barua	Seats (Total: 40)
	MW 2:00pm - 3:15pm	CHE 2118

ENEE459A **Topics in Computer Engineering; CAD Tools**

(Perm req)

Credits: 1 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisite: ENEE245 Verilog or VDHL hardware description languages (HDLs) and graphical printed ciruit design CAD packages are used to create a digital system implemented on a printed circuit-board. A practical design for hardware incorporating a processor and interface devices is to be created by the student. Simulation is used to explore practical issues of system performance and device resource constraints, and a printed-circuit board proof-of-concept will be produced by the student.

0101	William Hawkins	Seats (Total: 12)
	Tu 9:30am - 10:20am	EGR 1104
	Contact instructor or department for details.	

ENEE459B **Topics in Computer Engineering; Reverse Engineering and Hardware Security Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prequisite: ENEE244, ENEE245, and ENEEE350 or permission of the instructor.

0101	Gang Qu, Allen Hazelton	Seats (Total: 27)	
	M 4:15pm - 6:00pm	EGR 0312	
	W 4:15pm - 6:00pm	EGR 0312	Lab

ENEE459C **Topics in Computer Engineering; Computer Security**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisite: Permission of department and; ENEE150 or CMSC132 or permission of instructor. Students are taught both theoretical and practical concepts of computer systems security. It covers fundamental notions required to build a secure system (e.g., symmetric/asymmetric encryption, message authentication, digital signatures, access control), as well as practical topics in computer security (network security, web security, cloud security, physical security). The class will provide the students with the necessary tools for designing secure computer systems and programs and for defending against malicious threats (e.g., viruses, worms, denial of service).

0101	Charalampos Papamanthou	Seats (Total: 30)
	MW 11:00am - 12:15pm	EGR 0108

ENEE460 **Control Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in Engineering: Electrical program.

Mathematical models for control system components. Transform and time domain methods for linear control systems. Introductory stability theory. Root locus, bode diagrams and Nyquist plots. Design specifications in the time and frequency domains. Compensation design in the time and frequency domain. Introduction to sampled data systems.

ENEE majors (09090) only.

0101	Andre Tits	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	EGR 3106

ENEE474 **Power Systems**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Interconnected power systems, transmission lines, load flow studies, unit commitment and economic dispatch. Three phase networks, machine models. Symmetrical components, fault analysis and unbalanced operation. Power system transients, stability and numerical methods in power system analysis.

0101	Isaak Mayergoyz	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	KEB 1110

ENEE486 **Optoelectronics Lab**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in PHYS271 and PHYS270; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Hands-on experience in performing measurements in optics and electro-optics. Basics of optics, light detectors, Fourier optics, gratings and spectrometers, pulsed dye lasers, fiber optics, electro-optics, and acousto-optics.

0101	Mario Dagenais	Seats (Total: 12)	
	W 10:00am - 10:50am	CHE 2145	
	W 2:00pm - 5:00pm	AVW 1362	Lab

ENEE488 **Independent Study in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

Prerequisite: permission of department.

1301	Perinkulam Krishnaprasad Contact instructor or department for details.	Seats (Total: 3)
1501	William Levine Contact instructor or department for details.	Seats (Total: 3)
1801	Robert Newcomb Contact instructor or department for details.	Seats (Total: 3)
4201	Victor Granatstein Contact instructor or department for details.	Seats (Total: 3)
5301	Instructor: TBA	Seats (Total: 5)
5601	Jonathan Simon Contact instructor or department for details.	Seats (Total: 10)
6901	Neil Goldsman Contact instructor or department for details.	Seats (Total: 3)
7001	Wesley Lawson Contact instructor or department for details.	Seats (Total: 5)
9801	Jeremy Munday Contact instructor or department for details.	Seats (Total: 10)

ENEE489I **Topics in Electrophysics; Solar Energy Conversion**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrophysics.

0101	Jeremy Munday TuTh 12:30pm - 1:45pm	Seats (Total: 20) EGR 0110

ENEE490 **Physical Principles of Wireless Communications**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE381. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE490 or ENEE498B. Formerly: ENEE498B.

0101	Victor Granatstein MW 12:30pm - 1:45pm	Seats (Total: 25) EGR 3114

ENEE496 **Lasers and Electro-optic Devices**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE381; and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Modern physical optics: Gaussian beams, optical resonators, optical waveguides; theory of laser oscillation, rate equations; common laser systems. Selected modern optoelectronic devices like detectors and modulators. Role of lasers and optoelectronics in modern technology.

Additional Note: Also offered as PHYS499L. Credit will only be granted for PHYS499L or ENEE496.

0101	Howard Milchberg	Seats (Total: 10)
	MW 3:00pm - 4:15pm	PHY 1204

ENEE499 **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-5 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

ENEE majors (09090) only.

Contact department for information to register for this course.

ENEE499L **Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499R **Senior Projects in Electrical and Computer Engineering**

(Perm req) Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499T **Senior Projects in Electrical and Computer Engineering; Undergradute Teaching Experience**

(Perm req) Credits: 1-2 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE600 **Solid State Electronics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE413; and must have background in elementary quantum mechanics. Credit only granted for: ENEE600 or ENEE793. Formerly: ENEE793.

Properties of crystals; energy bands: electron transport theory; conductivity and hall effect; statistical distributions; fermi level: impurities; non-equilibrium carrier distributions; normal modes of lattice vibration and thermal properties of crystals; tunneling phenomena; surface properties.

0101	Agisilaos Iliadis	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 3102

ENEE610 **Electrical Network Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed undergraduate-level Circuit Theory; or permission of instructor.

Matrix algebra, network elements, ports, passivity and activity, geometrical and analytical descriptions of networks, state variable characterizations, scattering matrices, signal flow graphs, sensitivity.

0101	Robert Newcomb TuTh 2:00pm - 3:15pm	Seats (Total: 30) EGR 2154	

ENEE614 **Radio Frequency VLSI Circuit Design**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENEE611.

This course will give students the knowledge required to analyze, desig and lay-out discrete and integrated circuits used in modern radio frequency communications. The course will focus on advanced amplifier concepts, frequency conversion, tuning, and low-noise techniques. Implementation of AM, FM and digital modulation techniques will be covered. Emphasis will be given to CMOS technology as applied to analog VLSI. Advanced applications of SPICE and VLSI design layout tools will be covered.

0101	Pamela Abshire MW 2:00pm - 3:15pm	Seats (Total: 25) CHE 2145	

ENEE620 **Random Processes in Communication and Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE324; or students who have taken courses with comparable content may contact the department.

Introduction to random processes: characterization, classification, representation; Gaussian and other examples. Linear operations on random processes, stationary processes: covariance function and spectral density. Linear least square waveform estimating Wiener-Kolmogroff filtering, Kalman-Bucy recursive filtering: function space characterization, non-linear operations on random processes.

0101	Behtash Babadi MW 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 30) CSS 1113 CHE 2118	 Discussion
0102	Behtash Babadi MW 3:30pm - 4:45pm Th 5:00pm - 5:50pm	Seats (Total: 30) CSS 1113 CHE 2136	 Discussion

ENEE623 **Digital Communications**

Credits: 3

Grading Method: Regular, Audit

Recommended: ENEE420.

Review of sampling and quantization, functional characterization of digital signals and transmission facilities, band-limited signals and systems. Digital modulation/demodulation techniques, error probability, intersymbol interference and its effects, adaptive equalization. Signaling with coded waveforms, fading and satellite channels, multiple access problems and protocols. Introduction to spread-spectrum Communications.

0101	Raghuveer Rao	Seats (Total: 20)	
	MW 5:00pm - 6:15pm	EGR 3102	

ENEE626 **Error Correcting Codes**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE420; or students who have taken courses with comparable content may contact the department. Credit only granted for: ENEE626 or ENEE722. Formerly: ENEE722.

Introduction to linear codes; bounds on the error correction capabilities of codes; convolutional codes with threshold, sequential and viterbi decoding; cyclic random error correcting codes; P-N sequences; cyclic and convolutional burst error correcting codes.

0101	Alexander Barg	Seats (Total: 18)	
	TuTh 12:30pm - 1:45pm	EGR 3111	

ENEE630 **Advanced Digital Signal Processing**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE425. Corequisite: ENEE620. Credit only granted for: ENEE624 or ENEE630. Formerly: ENEE624.

This is the first-year graduate course in signal processing. The objective is to establish fundamental concepts of signal processing on multirate processing, parametric modeling, linear prediction theory, modern spectral estimation, and high-resolution techniques.

0101	Piya Pal	Seats (Total: 40)	
	TuTh 3:30pm - 4:45pm	SPH 1303	
	Tu 5:00pm - 5:50pm	CSI 2120	Discussion

0102	Piya Pal	Seats (Total: 35)	
	TuTh 3:30pm - 4:45pm W 5:00pm - 5:50pm	SPH 1303 KEB 1200	Discussion

ENEE633 **Statistical Pattern Recognition**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department; or permission of instructor. Corequisite: ENEE620. Credit only granted for: ENEE633 or ENEE739Q. Formerly: ENEE739Q.

The goal is to introduce mathematical pattern analysis and recognition. Emphasis is given to parametric and non-parametric statistical pattern recognition methods and clustering with applications to speech, image and video recognition.

Also offered as CMSC828C. Credit will be granted for CMSC828C or ENEE633 .

0101	Ramalingam Chellappa	Seats (Total: 68)
	MW 11:00am - 12:15pm	KEB 1200

ENEE641 **Mathematical Foundations for Computer Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENEE641 or ENEE759F. Formerly: ENEE759F.

Mathematical modeling, design, analysis and proof techniques related to computer engineering. Probability, logic, combinatorics, set theory, and graph theory, as they pertain to the design and performance of computer engineering systems. Techniques for the design and analysis of efficient computational methods from graph theory and networks. Understanding of the limits on the efficiency of such computational methods. Translation from mathematical theory to actual programming. The course emphasizes mathematical rigor.

0101	Uzi Vishkin	Seats (Total: 40)
	MW 12:30pm - 1:45pm	EGR 0110

ENEE646 **Digital Computer Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE446; or students who have taken courses with comparable content may contact the department.

Concepts and techniques for design of computer systems with improved performance. Advanced I/O systems, memory organization, pipeland and parallel processors, bus bandwidth, processor/memory interconnections, cache memory, virtual memory, multiprocessors, performance evaluation.

0101	Yavuz Oruc	Seats (Total: 45)
	MW 3:30pm - 4:45pm	EGR 0110

ENEE660 **System Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE460 and MATH463; or students who have taken courses with comparable content may contact the department.

General systems models. State variables and state space. Linearity and its implications. Controllability and observability. State space structure and representation. Realization theory and algorithmic solutions. Parameterizations of linear systems; canonical forms. Basic results from stability theory. Stabilizability. Fine structure of linear multivariable systems; minimal indices and polynomial matrices. Interplay between frequency domain and state space.

0101	Nuno Martins	Seats (Total: 30)
	MW 12:30pm - 1:45pm	EGR 1104

ENEE662 **Convex Optimization**

Credits: 3 Grading Method: Regular, Audit

Recommended: MATH410. Credit only granted for: ENEE759F or ENEE662.

Focuses on recognizing, solving, and analyzing convex optimization problems. Convex sets, convex functions, convex and quasi-convex optimization problems. Duality theory and optimality conditions. Specific classes of problems including linear optimization (LP), semi-definite optimization (SDP), geometric programming. Algorithms for unconstrained and constrained optimization; interior-point methods. Applications in controls, communications, signal processing, statistics, and other areas.

0101	Michael Rotkowitz	Seats (Total: 43)
	TuTh 11:00am - 12:15pm	CSS 1113

ENEE680 **Electromagnetic Theory I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Theoretical analysis and engineering applications of Maxwell's equations. Boundary value problems of electrostatics and magnetostatics.

0101	Thomas Antonsen	Seats (Total: 30)
	MW 3:30pm - 4:45pm	EGR 1104

ENEE690 **Quantum and Wave Phenomena with Electrical Application**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Introduction of quantum and wave phenomena from electrical engineering point of view. Topics included: general principles of quantum mechanics, operator algebra, the microwave resonant cavity and the analagous potential well problem, harmonic oscillator, hydrogenic atom. Perturbation method applied to the transmission line and potential well problems. Periodically loaded transmission line and Kronig-Penny model of band theory.

0101	Edo Waks	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	EGR 3106

ENEE698C **Graduate Seminar**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Andre Tits	Seats (Total: 20)
	Contact instructor or department for details.	

ENEE698E **Graduate Seminar; Microelectronics**

Credits: 1-2 Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Robert Newcomb	Seats (Total: 20)
	Tu 5:00pm - 5:50pm	CSI 2118

ENEE698Q **Graduate Seminar; Colloquium Series**

Credits: 1 Grading Method: Regular

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Ramalingam Chellappa	Seats (Total: 80)
	F 3:00pm - 4:00pm	KEB 1110

ENEE698T **Graduate Seminar; Intellectual Property Seminar for Engineers and Management**

Credits: 1 Grading Method: Regular, Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Michael Oblon	Seats (Total: 35)
	Tu 6:00pm - 7:50pm	CSI 2120

ENEE699 **Independent Studies in Electrical Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE757 **Security in Distributed Systems and Networks**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE647; or permission of instructor.

Threats and countermeasures in centralized and distributed systems; communication security techniques based on encryption; symmetric and asymmetric encryption; encryption modes, including stream and block encryption, and cipher block chaining; message origin and mutual authentication; third-party and inter-realm authentication, authentication of mobile users; data confidentiality and integrity protocols; formal analysis of authentication protocols and message integrity; access control in distributed systems and networks; firewall design; case studies of security mechanisms and policies.

Also offered as CMSC818V. Credit granted for ENEE757 or CMSC818V.

0101	Tudor Dumitras	Seats (Total: 25)
	MW 11:00am - 12:15pm	JMP 1202

ENEE759G **Advanced Topics in Computer Engineering**

Credits: 3 Grading Method: Regular, Audit

Topics, as announced every semester, from the field of computer engineering and its applications.

0101	Joseph JaJa	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	ITV 1100

ENEE765 **Adaptive Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE660 and ENEE664; or students who have taken courses with comparable content may contact the department.

General principles of adaptive control. Self-tuning regulators and mode reference adaptive systems. Theoretical issues: stability, convergence, and robustness. Practical issues: implementation, computation, auto-tuning, and other successful application. Alternatives to adaptive control.

0101	John Baras	Seats (Total: 25)
	MW 5:00pm - 6:15pm	CSI 3117

ENEE789C **Advanced Topics in Electrophysics; Solar Energy Conversion**

Credits: 3 Grading Method: Regular, Audit

Topics selected, as announced every semester, from the field of electrophysics and its applications.

0101	Jeremy Munday	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	EGR 0110

ENEE799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENEE889 **Teaching Workshop**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.

ENEE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENES Engineering Science Fall 2015

ENES100 **Introduction to Engineering Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

0201	Gregory Barr	Seats (Total: 40)
	TuTh 8:00am - 9:50am	JMP 1116
	Class time/details on ELMs	ONLINE
	Contact instructor or department for details.	

0301	Evandro Valente MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1116 ONLINE
0302	Ayush Gupta MW 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1215 ONLINE
0401	David Lovell TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1116 ONLINE
0402	Peter Sunderland TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 20) JMP 1215 ONLINE
0501	Evandro Valente MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1116 ONLINE
0502	Kristen Hines MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 30) JMP 1215 ONLINE
0601	Wesley Lawson TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 30) JMP 1116 ONLINE
0602	Michael Galczynski TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 30) JMP 1215 ONLINE
0701	Evandro Valente MW 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 40) JMP 1116 ONLINE

0801	John Cumings TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 35) JMP 1116 ONLINE
0802	Isabel Lloyd TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 30) JMP 1215 ONLINE
1001	Michael Galczynski TuTh 4:30pm - 6:20pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 32) JMP 1116 ONLINE

ENES100A **Introduction to Engineering Design**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

0402	Peter Sunderland TuTh 10:00am - 11:50am Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 20) JMP 1215 ONLINE
0502	Kristen Hines MW 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 10) JMP 1215 ONLINE
0601	Wesley Lawson TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 10) JMP 1116 ONLINE
0602	Michael Galczynski TuTh 12:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 10) JMP 1215 ONLINE

0801	John Cumings TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 5) JMP 1116 ONLINE	
0802	Isabel Lloyd TuTh 2:00pm - 3:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 10) JMP 1215 ONLINE	
1001	Michael Galczynski TuTh 4:30pm - 6:20pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 8) JMP 1116 ONLINE	

ENES102 **Mechanics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Thomas Beigel MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 49) CHE 2118 CSI 1121	Discussion
0102	Kevin Calabro MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 50) HBK 0115 PLS 1140	Discussion
0104	Kevin Calabro MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) CSS 2428 PHY 1201	Discussion
0106	Stephen Kamakaris MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) CSS 1113 CSS 1113	Discussion

ENES102H **Mechanics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Gary Pertmer MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 50) EGR 1108 CHM 2201	 Discussion
0301	Gary Pertmer MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) SPH 1301 CHM 2201	 Discussion

ENES113 **Virtus Living and Learning Community Seminar I**

Credits: 1 Grading Method: Regular

Restriction: Must be in first year Virtus program.

The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to basic tools, undergraduate research opportunities, and campus and engineering resources.

0101	Tamara Fuller W 4:00pm - 5:30pm	Seats (Total: 65) MCB 1207

ENES115 **FLEXUS Living and Learning Community Seminar I**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a first year FLEXUS Participant.

The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to campus and engineering resources, basic tools, and undergraduate research opportunities. Students will discuss issues of concern through a variety of book readings, self-reflections, and panel discussions with practicing women engineers.

0101	Paige Smith, Candice Staples	Seats (Total: 65)
	W 4:00pm - 5:30pm	BPS 1243

ENES140 **Discovering New Ventures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Additional information: This course may count as an elective for a student at the University of Maryland, depending on the student's specific degree program. It cannot be counted towards the requirements for the Smith School of Business Entrepreneurship Fellow Program.

Students explore dynamic company startup topics by working in teams to design a new venture. This multi-disciplinary course helps students to learn the basic business, strategy, and leadership skills needed to launch new ventures. Topics include learning how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Students discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunities, assess the skills and talents of successful entrepreneurs, and learn models that help them navigate uncertainty.

0101	James Green	Seats (Total: 600)
	Class time/details on ELMs	ONLINE

ENES181 **Dialogue with the Dean**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must be a new freshman or transfer student.

Introduction to Engineering as a Profession, Overview of Martin Institute and Clark School Education and Research Programs, The Future of Engineering and Engineering Education, Basic Technological Literacy, Business and Entrepreneurship Issues for Engineers, the Joy of Discovery, Student Projects: How to get involved, Research and Development Programs: How to get involved, What the corporate sector expects from a new engineering graduate.

0101	Darryll Pines	Seats (Total: 100)
	W 4:00pm - 4:50pm	KEB 1110

ENES190H **Introduction to Design and Quality**

Credits: 4 | Grading Method: Regular | General Education: DSSP

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Also offered as: BMGT190. Credit only granted for: BMGT190 or ENES190.

Expose engineering and business students to the principles of total quality, using experiential team learning and technology aided approaches. The first of four courses in total quality.

First course in a sequence of four Total Quality Program Courses. For total Quality Program participants only. Also offered as ENES190H.

A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS Click here for more informationon the Fearless Ideas Courses.

0101	Pamela Armstrong	Seats (Total: 45)	
	TuTh 12:30pm - 1:45pm W 7:00pm - 8:50pm	VMH 1415 VMH 1412	Discussion

ENES210 **Entrepreneurial Opportunity Analysis and Decision-Making in 21st Century Technology Ventures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSSP, SCIS

This multi-disciplinary course helps students learn the principles of entrepreneurial opportunity analysis and decision-making in an increasingly dynamic and technically-inclined society. Emphasis is placed on how aspiring technology entrepreneurs can develop their entrepreneurial perspectives to develop winning entrepreneurial plans for their future ventures.

FC01	Michael Pratt	Seats (Total: 125)
	MW 3:00pm - 4:15pm	BPS 1250
	Restricted to students in Freshmen Connection.	

ENES213 **Virtus Living and Learning Community Seminar III**

(Perm req)

Credits: 1 | Grading Method: Regular

Prerequisite: ENES113. Restriction: Must be a participant in the second year of the Virtus program.

The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking and mentoring and developing awareness of diversity issues.

0101	Tamara Fuller	Seats (Total: 45)
	Th 4:00pm - 5:15pm	ITV 1111
0201	Tamara Fuller	Seats (Total: 20)
	Contact instructor or department for details.	

ENES215 **FLEXUS Living and Learning Community Seminar III**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: ENES115 and ENES116. Restriction: Must be a second year FLEXUS participant.

The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing self-confidence and self-efficacy in academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking, mentoring and role modeling, and developing awareness of diversity issues, specifically gender diversity.

0101	Candice Staples, Paige Smith Th 4:00pm - 5:15pm	Seats (Total: 49) BPS 1236	
0102	Candice Staples, Paige Smith Contact instructor or department for details.	Seats (Total: 30)	

ENES220 **Mechanics II**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

Prerequisite: student in the College of Engineering.

0101	Peter Chang MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 50) CSI 2117 CSI 1122	 Discussion
0201	William Fourney MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 50) PHY 1204 CHE 2110	 Discussion
0301	Robert Bonenberger MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) CHM 0115 HBK 0115	 Discussion

0401	Thomas Beigel MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) HBK 0115 CSI 1122	Discussion
0501	Robert Bonenberger MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) HBK 0115 MCB 1207	Discussion
0601	Thomas Beigel MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 50) CHM 0115 CSI 1122	Discussion
0801	Thomas Brodrick M 5:00pm - 6:50pm W 5:00pm - 6:50pm	Seats (Total: 50) CHE 2118 CHE 2118	Discussion
0901	Mary Bowden MW 3:00pm - 3:50pm F 3:00pm - 4:50pm	Seats (Total: 50) CHM 2201 KEB 1200	Discussion

ENES221 **Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

0101	Amr Baz MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) HBK 0115 KEB 1110	Discussion
0102	Patrick McAvoy MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) HBK 0103 SPH 1301	Discussion
0103	Chandrasekhar Thamire MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) PLS 1130 ANS 0408	Discussion

0104	Patrick McAvoy MW 12:00pm - 12:50pm F 11:00am - 12:50pm	Seats (Total: 50) HBK 0115 CSS 2428	Discussion
0106	Chandrasekhar Thamire MW 3:00pm - 3:50pm F 3:00pm - 4:50pm	Seats (Total: 55) TYD 2109 SPH 1302	Discussion

ENES232 **Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE300, ENCH300, ENES232, ENMA461, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0101	Kristen Hines MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 60) CHM 2201 CSI 2117	Discussion
0301	Raymond Sedwick MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 60) PHY 1201 CCC 1205	Discussion

ENES304 **RISE Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in the Engineering RISE Leadership Program; and permission of ENGR-A. James Clark School of Engineering.

This is the first semester of a two semester sequence taken by RISE students in their first semester in the program. T he purpose of ENES 304 is for RISE students to learn about leadership, acquire leadership skills, and understand how to integrate leadership theories and concepts in engineering practice. There will be a mix of formal lectures by course faculty and lectures by distinguished speakers who can provide their own experience of what leadership means and how it is acquired. Students will explore their own leadership philosophy and leadership capacities in the context of group practice. Students will make meaning of general leadership theories and concepts and understand how to apply them to engineering industry. Students will also gain understanding of leadership through the stories shared by distinguished speakers with industrial, governmental and academic experience.

0101	Ramsey Jabaji, Christopher Davis, Jane Fines Tu 5:00pm - 5:50pm	Seats (Total: 52) JMP 2121

ENES390H **Systems Thinking for Managerial Decision Making**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190. Restriction: Must be in the QUEST program. Also offered as: BMGT390. Credit only granted for: BMGT390, BMGT498X, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST program students. Also offered as BMGT390H.

0101	Jose Suarez MW 5:00pm - 6:15pm	Seats (Total: 45) VMH 1415

ENES397 **Mentoring Design and Quality Teams**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

0101	Pamela Armstrong W 6:00pm - 7:00pm W 7:00pm - 8:50pm	Seats (Total: 16) VMH 1407 VMH 1415

ENES424 **Engineering Leadership Capstone**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES472, ENCE320, and ENES317; and permission of ENGR-A. James Clark School of Engineering. Recommended: ENES100.

The work initiated in the Introduction to Engineering Leadership course brings together further exploration of leadership styles and concepts.

Restricted to students with a minor in Engineering Leadership Developmen t.

0101	Ramsey Jabaji	Seats (Total: 30)
	Tu 5:00pm - 7:45pm	EGR 3106

ENES440 **Science, Technology and Society: Certificate Program Capstone**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Science, Technology and Society certificate program; or permission of ENGR-A. James Clark School of Engineering. Credit only granted for: ENES440 or UNIV401. Formerly: UNIV401.

Capstone research seminar for students in the Science, Technology and Society certificate program.

0101	David Tomblin	Seats (Total: 10)
	Contact instructor or department for details.	

ENES460 **Fundamentals of Technology Start-Up Ventures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Formerly: ENES489A.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

0101	James Green	Seats (Total: 50)
	TuTh 5:00pm - 6:15pm	SCC 2121
	Restricted to students enrolled in the Hinman CEO Program.	
0201	Goncagul Branco	Seats (Total: 60)
	F 1:00pm - 3:30pm	EGR 1108
	Restricted to Hillman Entrepreneurs Program.	

ENES461 **Advanced Entrepreneurial Opportunity Analysis in Technology Ventures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Explores the factors that influence entrepreneurial opportunity analysi in technology-based ventures. Uses a cognitive theoretical framework to examine the integration of motivation, emotions and information processing modes to make complex entrepreneurial decisions in fast pace technology venture environments.

0101	James Green, Michael Pratt	Seats (Total: 55)
	TuTh 5:00pm - 6:15pm	SQH 1119
	Restricted to students in the Hinman CEO program.	

ENES463 Strategies for Managing Innovation

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Emphasizes how the technology entrepreneur can use strategic management of innovation and technology to enhance firm performance. Examines the process of technological change, the ways that firms come up with innovations, the strategies that firms use to benefit from innovation, and the process of formulating technology strategy. Provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

0101	Thomas Mierzwa	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Restricted to Minor in Technology Entreprenuership.	
0201	Goncagul Branco, Shahab Kaviani	Seats (Total: 49)
	F 1:00pm - 3:30pm	EGR 0110
	Restricted to Hillman Entrepreneurs Program.	

ENES466 Leading and Financing the Technology Venture

Credits: 3 Grading Method: Regular

Credit only granted for: ENES466 or BMGT365. Additional information: Course cannot be used to satisfy a major requirement for the Smith School of Business.

Focuses on the challenges of leading and financing new technology ventures. Leadership topics include team selection and formation, aligning rewards with relative contributions of team members, and how early decisions can enable or prevent founders from achieving results that align with their individual motivations for becoming an entrepreneur. Essential tools and methods for building a strong financial foundation for a new technology venture are examined. Includes important accounting principles as well as methods for keeping financial control of the technology venture. Insights are shared on navigating the multitude of financial barriers that may block your entrepreneurial success, as well as how to grow the technology venture from concept through launch.

Restricted to students in the Minor in Technology Entrepreneurship.

0101	Michael Pratt	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

ENES472 **International Business Cultures in Engineering and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Restriction: Sophomore standing or higher. Also offered as: SLLC472. Credit only granted for: ARHU439B, ARHU439E, ARHU439T, ENES472, SLLC471, SLLC472, or SLLC473. Formerly: ARHU439T.

The goal is to provide students with an understanding of cultural aspects pertaining to global business and engineering and develop the cultural understanding, attitudes, and communication skills needed to function appropriately within an increasingly global and multicultural working environment.

Restricted to students with the minor in international engineering (#EN01) and in engineering leadership development (#EN04). Students in global poverty (#AG06), in terrorism studies (#BS07), or in international development and conflict management (#BS02) may request permission for the course from Jane Fines (jfines@umd.edu). All other students can be placed on a hold file.

BL01	Jane Fines	Seats (Total: 45)
	Th 6:00pm - 7:45pm	KEB 1200
	Class time/details on ELMs	ONLINE
	Restricted to students with the minor in international engineering and in engineering leadership development. Students in global poverty, in terrorism studies, or in international development and conflict management may request permission for the course from Jane Fines (jfines@umd.edu). All other students can be placed on a holdfile.	

ENES478 **Topics in Engineering Education**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Topics related to teaching engineering courses, particularly project-based courses. Topics can include learning styles, student development theory, multicultural issues in teaching, facilitating team experiences, assessment, and academic integrity.

0101	Nicole Roop, Kevin Calabro	Seats (Total: 16)
	F 4:00pm - 5:00pm	JMP 1109

ENES478A **Topics in Engineering Education; Applied Quantitative Analysis**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics related to teaching engineering courses, particularly project-based courses. Topics can include learning styles, student development theory, multicultural issues in teaching, facilitating team experiences, assessment, and academic integrity.

Restricted to QUEST students. Also offered as BMGT438A. Credit granted for BMGT438A or ENES478A.

0101	Kylie King Th 5:00pm - 5:50pm	Seats (Total: 20) VMH 3330H	

ENES480 Engineering Honors Seminar I

Credits: 1 Grading Method: Regular

Restriction: Must be in College of Engineering Honors; and junior standing or higher.

Introduction to engineering leadership, professionalism, and ethics. Discussions of leadership style, elements of success, professional communication, codes of ethics, handling of ethical dilemmas, and the characteristics of a professional.

0103	Richard McCuen Tu 8:00am - 9:15am	Seats (Total: 15) JMP 1109	

ENES489P Special Topics in Engineering; Hands-on Systems Engineering Projects

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in engineering.

This hands-on design projects course will expose senior-level undergraduates and graduate students from all areas of engineering to exciting career opportunities in the systems engineering field. Students will be introduced to the technical aspects of systems engineering practice through team-based project development and a systematic step-by-step procedure for product development that includes defining operations concepts, requirements gathering and organization, synthesis of models of system behavior and system structure, functional allocation to create system design alternatives, formal assessment of design alternatives through tradeoff analysis, and established approaches to testing and validation/verification. The students will be introduced to modern methods in Model-Based Systems Engineering, and industrial strength tools and environments for complex systems synthesis. Team projects may address problems from a wide variety of disciplines or cross-disciplines.

0101	Raymond Adomaitis Tu 5:00pm - 6:15pm Th 3:30pm - 6:30pm	Seats (Total: 40) ITV 1111 AVW 1442	 Lab

ENES490H **Quest Consulting and Innovation Practicum**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: BMGT490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Fourth course in a sequence of four Total Quality Program Courses. For total Quality Program participants only.

0101	Jeffrey Herrmann, Kylie King	Seats (Total: 45)
	Tu 5:00pm - 7:40pm	VMH 1415
	Contact instructor or department for details.	

ENES602 **Future Faculty Program Seminar II**

(Perm req)

Credits: 1 | Grading Method: Regular, Audit

Restriction: Must be in the Clark School Future Faculty Program.

Effective teaching techniques. Basic principles of education and learning. Developing a course; promoting active learning, problem solving and critical thinking; designing exam and assignments; and communicating effectively with students.

This course is only open to students in the Clark School Future Faculty Program or by permission of Department.

0101	Teng Li	Seats (Total: 25)
	M 3:30pm - 4:45pm	AVW 2460

ENES604 **Future Faculty Program Teaching Practicum**

(Perm req)

Credits: 1 | Grading Method: Regular, Audit

Prerequisite: ENES602. Restriction: Must be a graduate student in the Clark School Future Faculty Program; and students for whom English is not the native language must pass the Maryland English Institute ITA Evaluation prior to enrolling in this course.

Graduate students will co-teach a course under supervision of a faculty mentor. Graudate students will be involved in all aspects of the course including development of syllabus, presenting lectures, writing and grading examiniations, and evaluating the students in the course.

0101	Peter Kofinas	Seats (Total: 10)
	Contact instructor or department for details.	

ENES660 **Fundamentals of Technology Startup Ventures**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENES660 or ENPM690.

Explores the processes and skills needed to launch and manage technology startup ventures. Learn how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Discusses a wide range of issues of importance and concern to entrepreneurs, to include how to recognize opportunity, assess the skills and talents of successful entrepreneurs, and models and approaches to navigate uncertainty.

PLM1	Douglas Britton, James Green, Mark Komisky	Seats (Total: 50)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES662 **Innovative Ideas and Concept Development**

Credits: 3 Grading Method: Regular, Audit

Enables aspiring entrepreneurs to understand the content, methods, and models for new venture opportunity assessment and analysis. Focuses on how to identify and analyze entrepreneurial opportunities for technology-based ventures by first understanding the personal self and decision-making factors. Explores how to evaluate new venture opportunities and challenges within industries and markets.

PLM1	James Green	Seats (Total: 50)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES663 **Strategies for Managing Innovation**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENES663 or ENPM691.

Emphasizes how innovative leaders can use strategic management of innovation and technology to enhance firm performance. It helps students to understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and the process of formulating technology strategy. It provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

PLM1	Thomas Mierzwa	Seats (Total: 50)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program.	

ENES668 **Corporate Technology Entrepreneurship**

Credits: 3 Grading Method: Regular

Focuses on the role of entrepreneurial individuals inside of existing technology organizations. Explores developing and leading innovation inside the firm. Discusses stages of innovation in the corporate entrepreneurship process and dynamics of organizational structure, politics, decisions, financing, and personal styles.

PLM1	James Green, Satish Tamboli, Mark Komisky	Seats (Total: 50)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the MPTE Program. Click here for more course information.	

ENFP Engineering, Fire Protection Fall 2015

ENFP101 **Hot Topics in Fire Protection Engineering**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP 108 or ENFP 101. Formerly: ENFP108.

Current issues of importance to fire protection engineering. Topics focus on advances in basic fire science, computerized fire modeling, safety systems, human behavior and fire, fire toxicity, risk analysis, performance based fire safety, fire reconstruction, arson and evidence, voluntary fire safety standards, codes, and relations with other disciplines including architecture and the built environment, loss prevention and fire insurance.

0101	James Milke M 12:00pm - 12:50pm	Seats (Total: 20) JMP 1109	

ENFP250 **Introduction to Life Safety Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP250 or ENFP251. Formerly: ENFP251.

Introduction to fire protection engineering and building regulation, building safety systems, and egress system design. Evacuation modeling. Human behavior in fires. Tenability Analysis.

0101	Kenneth Isman TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 15) EGR 0108 EGR 2154	 Discussion
0102	Kenneth Isman TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 14) EGR 0108 EGR 2154	 Discussion

ENFP310 **Water Based Fire Protection Systems Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP300. Corequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department.

Introduction to aqueous fire suppression. Discussion of key fluid dynamics and heat transfer processes in aqueous fire suppression. System design and performance analysis based on national standards, hydraulic theory and elementary fluid dynamics and heat transfer.

0101	Kenneth Isman TuTh 4:00pm - 5:15pm	Seats (Total: 40) PHY 1402	

ENFP312 **Heat and Mass Transfer**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENFP300. Restriction: Permission of ENGR-Fire Protection Engineering department.

Fundamentals of heat and mass transfer. Conduction, convection, and radiation modes of heat transfer. Diffusion concepts and evaporation phenomena. Problem solving techniques with application to fire problems.

0105	Marino diMarzo	Seats (Total: 30)	
	MW 9:00am - 9:50am	EGR 1202	
	M 1:00pm - 2:50pm	JMP 1109	Lab

ENFP405 **Structural Fire Protection**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220. Restriction: Must be in Engineering: Fire Protection program; and permission of ENGR-Fire Protection Engineering department.

Effects of elevated temperature on structural materials; steel, concrete, wood, gypsum, glass and reinforced plastics. Experimental evaluation of fire resistance of building assemblies. Analytical methods to evaluate fire resistance of structural members.

0101	Stephen Hill, Jason Sutula	Seats (Total: 30)	
	Th 5:30pm - 7:15pm	EGR 1104	
	Th 7:20pm - 8:10pm	EGR 1104	Discussion

ENFP413 **Advanced Life Safety Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP250. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP613. Credit only granted for: ENFP413 or ENFP613.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety calculations. Physiology and toxicology of the fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

0101	James Milke	Seats (Total: 30)	
	MW 3:30pm - 4:45pm	ITV 1111	

ENFP415 **Fire Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP651. Credit only granted for: ENFP415 or ENFP651.

Introduction to premixed and diffusion flames; ignition, flame spread and rate of burning; fire plumes; flame radiation.

0101	Peter Sunderland	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	PLS 1130

ENFP425 **Enclosure Fire Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232, ENFP300, and ENFP312. Restriction: Must be in Engineering: Fire Protection program; and senior standing; and permission of ENGR-Fire Protection Engineering department.

An introduction to enclosure fire dynamics through the development of fire modeling algorithms and the application of computer-based fire modeling techniques. The objectives of the course are: to provide a basic understanding of enclosure fire dynamics with an emphasis on a system-level viewpoint (i.e., a global description of the coupling between combustion dynamics, smoke filling, vent flows and heat transfer); and to provide an introduction to the zone modeling approach. Topics covered include a review of the mathematical formulation of zone models, a discussion of numerical integration of the zone modeling equations (using MATLAB), and an introduction to zone modeling software used by professional engineers (e.g., CFAST).

0101	Stanislav Stoliarov, Arnaud Trouve	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	CHE 2118

ENFP429 **Independent Studies**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Senior standing. For ENFP majors only.

Contact department for information to register for this course.

ENFP489 **Special Topics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance to fire protection.

For ENFP majors only.

Contact department for information to register for this course.

ENFP489I **Special Topics; Industrial Fire Safety**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance to fire protection.

Prerequisite: permission of department.

0101	Noah Ryder, Arnaud Trouve MW 5:00pm - 6:15pm	Seats (Total: 20) ITV 1111

ENFP489W **Special Topics; Wildland Fires: Science and Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance to fire protection.

Restriction: Permission of ENGR-Fire Protection Engineering department.

0101	Michael Gollner TuTh 9:30am - 10:45am	Seats (Total: 25) CHM 1224

ENFP611 **Fire Induced Flows**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENFP415.

Theoretical basis is presented for fire induced bouyancy driven flows. Plumes, ceiling jets, vent flows, compartment flows. Dimensional analysis for correlations and scale model applications. Smoke movement and combustion products.

0101	Andre Marshall TuTh 11:00am - 12:15pm	Seats (Total: 20) CHM 0124

ENFP613 **Human Response to Fire**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP413.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety engineering calculations. Physiology and toxicology of fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

0101	James Milke	Seats (Total: 10)	
	MW 3:30pm - 4:45pm	ITV 1111	

ENFP619 **Graduate Seminar**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

0101	Arnaud Trouve	Seats (Total: 5)
	Contact instructor or department for details.	

ENFP621 **Analytical Procedures of Structural Fire Protection**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENFP405 and ENFP312.

Analysis procedures for structural components of wood, steel, concrete, composites. Structural capabilities, modifications under fire induced exposures. Calculations, computer models for predicting fire resistance ratings of structural components.

0101	Stephen Hill, Jason Sutula	Seats (Total: 10)	
	Th 5:30pm - 7:15pm	EGR 1104	
	Th 7:20pm - 8:10pm	EGR 1104	Discussion

ENFP625 **Advanced Fire Modeling**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department.

Validity, utility, reliability of current computer models. Applications of models in risk assessment, underwriting, loss prediction, hazard analysis. Development and validation of specific application models.

EF01	Arnaud Trouve **Meets August 31, 2015 - November 20, 2015** Class time/details on ELMs	Seats (Total: 40) ONLINE

ENFP629 **Selected Topics**

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP629I **Selected Topics; Industrial Fire Safety**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Prerequisite: permission of department.

0101	Arnaud Trouve, Noah Ryder MW 5:00pm - 6:15pm	Seats (Total: 10) ITV 1111

ENFP629M **Selected Topics; Material Flammability**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Prerequisite: permission of department.

0101	Stanislav Stoliarov MW 10:00am - 11:15am	Seats (Total: 20) PLS 1168

ENFP629W **Selected Topics; Wildland Fires: Science and Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Prerequisite: permission of department.

0101	Michael Gollner	Seats (Total: 15)
	TuTh 9:30am - 10:45am	CHM 1224

ENFP649 **Special Problems**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Prerequisite: permission of department.

Contact department for information to register for this course.

ENFP651 **Advanced Fire Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENFP629A or ENFP651. Formerly: ENFP629A.

A review of the basic chemistry and physics necessary to understanding fire dynamics; and of the physics of heat transfer and turbulent fluid flow will be given. The nature and structure of premixed and diffusion flames will be presented.

0101	Peter Sunderland	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	PLS 1130

ENFP662 **Performance Based Design**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENFP629E or ENFP662. Formerly: ENFP629E.

This on-line course demonstrates how fire science can be used to solve fire protection problems in the built environment and will provide an understanding of their performance-based design process, deterministic and risk-based analysis techniques, development of design fire scenarios, trial design development and analysis, and building lifecycle management.

EF01	Eric Rosenbaum, Morgan Hurley **Meets August 31, 2015 - November 20, 2015** Class time/details on ELMs	Seats (Total: 40) ONLINE

ENFP799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Fall 2015

English as a second language classes are listed under UMEI. For more detailed course descriptions, click here to visit the English department website.

ENGL101 **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

Students with a TWSE score below 33 must take ENGL 101A in place of ENGL101. Students for whom English is a second language should consider taking ENGL101X in place of ENGL101.

Click here for more course information.

0101	Peter Grybauskas MWF 9:00am - 9:50am	Seats (Total: 16) ASY 3221
0102	Kirk Greenwood MWF 9:00am - 9:50am	Seats (Total: 16) JMZ 1117
0103	Nathan Tillman MWF 9:00am - 9:50am	Seats (Total: 16) SQH 1123
0104	Ruth Morris MWF 9:00am - 9:50am	Seats (Total: 8) SYM 0209
0106	Delisa Hawkes MWF 9:00am - 9:50am	Seats (Total: 16) TWS 0205

0108	Michael Colson MWF 9:00am - 9:50am	Seats (Total: 16) TWS 1107
0201	Emilee Durand MWF 10:00am - 10:50am	Seats (Total: 16) ASY 3221
0203	Eleanor Tipton MWF 10:00am - 10:50am	Seats (Total: 16) PLS 1111
0204	Amanda Allen MWF 10:00am - 10:50am	Seats (Total: 16) ASY 3217
0205	Uchechi Okereke-Beshel MWF 10:00am - 10:50am	Seats (Total: 17) WDS 1127
0206	Matthew Smedley MWF 10:00am - 10:50am	Seats (Total: 17) SQH 1107
0208	Kathryn Kaczmarek MWF 10:00am - 10:50am	Seats (Total: 17) TWS 1107
0301	Michael Colson MWF 11:00am - 11:50am	Seats (Total: 16) ASY 3217
0302	Lea Landrus MWF 11:00am - 11:50am	Seats (Total: 16) ARC 1121
0304	Gary Slack MWF 11:00am - 11:50am	Seats (Total: 16) PLS 1164
0305	Sarah Bonnie MWF 11:00am - 11:50am	Seats (Total: 17) ARC 1127
0306	Rachel Penman MWF 11:00am - 11:50am	Seats (Total: 17) TWS 1106
0401	Alexander Graves MWF 12:00pm - 12:50pm	Seats (Total: 16) SQH 1123
0402	Ravenna Komar MWF 12:00pm - 12:50pm	Seats (Total: 16) ASY 3217

0403	Sabrina Islam MWF 12:00pm - 12:50pm	Seats (Total: 16) HBK 0108
0404	Steve Beaulieu MWF 12:00pm - 12:50pm	Seats (Total: 16) SQH 1105
0406	Ruth Osorio MWF 12:00pm - 12:50pm	Seats (Total: 17) LEF 1220
0502	Quinn McCracken MWF 1:00pm - 1:50pm	Seats (Total: 16) ASY 3215
0503	Peter Witte MWF 1:00pm - 1:50pm	Seats (Total: 16) KEY 0117
0504	Michael Kolakoski MWF 1:00pm - 1:50pm	Seats (Total: 16) SQH 1123
0505	Sara Faradji MWF 1:00pm - 1:50pm	Seats (Total: 17) ARC 1125
0601	Peter Witte MWF 2:00pm - 2:50pm	Seats (Total: 16) KEY 0120
0602	Justine Decamillis MWF 2:00pm - 2:50pm	Seats (Total: 16) SQH 1123
0603	Lindsey O'Neil MWF 2:00pm - 2:50pm	Seats (Total: 16) SYM 0209
0604	Kayla Harr MWF 2:00pm - 2:50pm	Seats (Total: 16) JMZ 1224
1001	Timothy Bruno TuTh 8:00am - 9:15am	Seats (Total: 16) ASY 3217
1002	Jacob Sevick TuTh 8:00am - 9:15am	Seats (Total: 16) ASY 3221
1101	Tamar Leroy TuTh 9:30am - 10:45am	Seats (Total: 16) WDS 1131

1102	Micaela Cameron TuTh 9:30am - 10:45am	Seats (Total: 16) ASY 3219
1103	Lewis Gleich TuTh 9:30am - 10:45am	Seats (Total: 16) TYD 1118
1105	Arielle Labrecque TuTh 9:30am - 10:45am	Seats (Total: 17) JMZ 1124
1203	Theresia Pratiwi TuTh 11:00am - 12:15pm	Seats (Total: 16) KEY 0120
1204	Christopher Philpot TuTh 11:00am - 12:15pm	Seats (Total: 16) JUL 1105
1301	Brian Davis TuTh 12:30pm - 1:45pm	Seats (Total: 16) JMZ 0118
1302	Norrell Edwards TuTh 12:30pm - 1:45pm	Seats (Total: 16) ARC 1125
1303	Jeffrey Griswold TuTh 12:30pm - 1:45pm	Seats (Total: 16) TWS 3136
1304	Paul Cote TuTh 12:30pm - 1:45pm	Seats (Total: 16) JMZ 0120
1305	Jesse Brooks TuTh 12:30pm - 1:45pm	Seats (Total: 17) WDS 1127
1306	Laura Williams TuTh 12:30pm - 1:45pm	Seats (Total: 17) ASY 3221
1401	Audrey Farley TuTh 2:00pm - 3:15pm	Seats (Total: 16) WDS 1114
1402	Martha Hunter TuTh 2:00pm - 3:15pm	Seats (Total: 16) JMZ 0118
1403	Paul Cote TuTh 2:00pm - 3:15pm	Seats (Total: 16) WDS 1131

1404	Gu Qian TuTh 2:00pm - 3:15pm	Seats (Total: 16) WDS 0104
1405	Filipa Calado TuTh 2:00pm - 3:15pm	Seats (Total: 17) JUL 1105
BL01	David Brookshire W 3:30pm - 4:45pm M 3:30pm - 4:45pm *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) JMZ 2120 ONLINE
BL02	David Brookshire W 5:00pm - 6:15pm M 5:00pm - 6:15pm *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) JMZ 1117 ONLINE
BL03	Maggie Ray Th 9:30am - 10:45am Tu 9:30am - 10:45am *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) ARC 1125 ONLINE
BL04	David Brookshire W 2:00pm - 3:15pm M 2:00pm - 3:15pm *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) KEY 0121 ONLINE
BL05	Douglas Kern MF 12:00pm - 12:50pm Class time/details on ELMs *This class meets in person twice a week; the other class work is done online.*	Seats (Total: 17) SQH 1111 ONLINE
BL06	Douglas Kern MF 1:00pm - 1:50pm Class time/details on ELMs *This class meets in person twice a week; the other class work is done online.*	Seats (Total: 17) SQH 1105 ONLINE
BL07	Cherie Walsh Tu 9:30am - 10:45am Class time/details on ELMs *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) KEY 0120 ONLINE

BL08	Cherie Walsh Tu 11:00am - 12:15pm Class time/details on ELMs *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) ASY 3221 ONLINE
BL09	Cherie Walsh Tu 12:30pm - 1:45pm Class time/details on ELMs *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) EDU 2101 ONLINE
BL10	Thomas Earles Tu 2:00pm - 3:15pm Class time/details on ELMs *This class meets in person once a week; the other class work is done online.*	Seats (Total: 17) KEY 0123 ONLINE
BL11	Maggie Ray Th 11:00am - 12:15pm Tu 11:00am - 12:15pm	Seats (Total: 17) TWS 3136 ONLINE
BL12	Lyra Hilliard Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 17) ARC 1125 ONLINE
BL13	Lyra Hilliard Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 17) TWS 3136 ONLINE
BL14	Lyra Hilliard Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 17) TWS 3136 ONLINE
FC01	Rachel Penman MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) JMZ 1124
FC02	Michael Kolakoski MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SKN 1112

FC03	Susan Pramschufer MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SQH 1123
FC04	William Pittman MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SKN 1112
FC05	Joshua Weiss MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SQH 1111
FC06	Radford Skudrna MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) ASY 3221
FC07	Maggie Ray MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) KEY 0119
FC08	Kshiti Vaghela TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SQH 1111
FC09	Amanda Fiore TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) WDS 1127
FC10	Michael Kolakoski TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) TWS 1106
FC11	Kshiti Vaghela TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SQH 1111
FC12	Adam Binkley TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) ASY 3203

FC13	Jesse Brooks TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) ASY 3219
FC14	Emily Lyons TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) ASY 3211
FC15	David Brookshire TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) ASY 3215
FC16	Kshiti Vaghela TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) SQH 1111
FC17	Laura Williams TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) EDU 1315
FC18	Stephanie Allen TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 1120
FC19	Katherine Kipp MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) KEY 0123
FC20	Joshua Weiss MW 4:30pm - 5:45pm	Seats (Total: 16) SQH 2120
FC21	Radford Skudrna MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) JMZ 2117
FC22	Amanda Bachert TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 16) CHM 0124

FC23	Katherine Kipp MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 3120
FC24	Stephanie Allen TuTh 6:00pm - 7:15pm *Restricted to Freshmen Connection Students.*	Seats (Total: 19) JMZ 2125
FC25	Amanda Allen TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 19) JMZ 2125

ENGL101A **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

Students should take ENGL 101A rather than ENGL 101 if their TWSE score (a subscore of the SAT verbal) is 33 or below.

1701	Virginia Butler TuTh 9:30am - 10:45am	Seats (Total: 14) KEY 0119
1702	Susanna Compton TuTh 12:30pm - 1:45pm	Seats (Total: 14) ARC 1121
1703	Emily Perez MWF 12:00pm - 12:50pm	Seats (Total: 14) KNI 1105

ENGL101C **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

Restricted to students in the Civicus Program.

0209	Kirk Greenwood MWF 10:00am - 10:50am	Seats (Total: 19) SOM 0101
0309	Kirk Greenwood MWF 11:00am - 11:50am	Seats (Total: 19) SOM 0101

ENGL101H **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

For general honors students or students with a verbal SAT of 600 or better.

0109	Katherine Kipp MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1164
0210	Katherine Kipp MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1117
0310	Danielle Griffin MWF 11:00am - 11:50am	Seats (Total: 19) SQH 1121
0407	Peter Grybauskas MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1176
1107	Kshiti Vaghela TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 3252
1207	Abbey Morgan TuTh 11:00am - 12:15pm	Seats (Total: 19) JMZ 1215
1307	Ines Rivera TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 3252

ENGL101S **Academic Writing**

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

This course is restricted to College Park Scholars.

0110	Noa Saunders MWF 9:00am - 9:50am	Seats (Total: 19) CCC 1111
0211	Kelsey Kerr MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1115

0212	Radford Skudrna MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1105
0311	Kelsey Kerr MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1105
0312	Radford Skudrna MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1115
0409	Justin Lohr MWF 12:00pm - 12:50pm	Seats (Total: 19) CCC 1105
0410	Catherine Bayly MWF 12:00pm - 12:50pm	Seats (Total: 19) CCC 1115
0508	Noa Saunders MWF 1:00pm - 1:50pm	Seats (Total: 19) CCC 1105
0509	Catherine Bayly MWF 1:00pm - 1:50pm	Seats (Total: 19) CCC 1115
0607	Justin Lohr MWF 2:00pm - 2:50pm	Seats (Total: 19) CCC 1105
1108	Katherine Stanutz TuTh 9:30am - 10:45am	Seats (Total: 19) CCC 1115
1208	Collier Cobb TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1105
1209	Katherine Stanutz TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1115
1210	John Kim TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1200
1308	John Kim TuTh 12:30pm - 1:45pm	Seats (Total: 19) CCC 1115

ENGL101X Academic Writing

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

Limited to students for whom English is a second language. The following are indications that a student should register for English 101X: 1) an iBT TOEFL score of 100 overall, with a writing section score of at least 24; 2) an IELTS score of 7.0 overall, with a writing score of at least 7.0; 3) satisfactory completion of UMEI 005: Advanced English as a Foreign Language.

2002	Amanda Fiore TuTh 9:30am - 10:45am	Seats (Total: 18) JMZ 0118
2003	Amanda Fiore TuTh 11:00am - 12:15pm	Seats (Total: 17) MTH 0409
2004	Lea Landrus MWF 10:00am - 10:50am	Seats (Total: 17) ARC 1123
2005	William Pittman MWF 12:00pm - 12:50pm	Seats (Total: 17) TWS 1107
2006	Amanda Fiore TuTh 2:00pm - 3:15pm	Seats (Total: 18) PLS 1117
2007	William Pittman MWF 11:00am - 11:50am	Seats (Total: 18) TWS 1107

ENGL201 Inventing Western Literature: Ancient and Medieval Traditions

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts, genres, and themes from ancient and medieval Western traditions. Study of cultural, historical, and artistic forces shaping traditions, and the influence and relevance of those traditions to life in twenty-first century.

0101	Tod Jones TuTh 11:00am - 12:15pm	Seats (Total: 30) LEF 1220

ENGL202 Inventing Western Literature: Renaissance to Modern

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts from the Renaissance to the 21st century. Themes and literary techniques in the evolution of Western literature. Print publication, industrialization, questioning of religious, political, intellectual, and cultural authority.

Contact department for information to register for this course.

ENGL206 **Shakespeare**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Credit only granted for: ENGL205, ENGL206, or ENGL289I. Formerly: ENGL205.

Shakespeare's poems, history plays, comedies, and tragedies as investigations into language use, governance, sexuality, ethics, and mortality.

0101	Tamar Leroy MWF 10:00am - 10:50am	Seats (Total: 30) TWS 0201
0201	Jeffrey Griswold TuTh 3:30pm - 4:45pm	Seats (Total: 30) TWS 0201

ENGL211 **English Literature: Beginnings to 1800**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys medieval and early modern literary works written in England. Readings may include Beowulf, Chaucer, Spenser, Mary Wroth, Milton; eighteenth-century satire, drama, novels.

0101	Emilee Durand MWF 12:00pm - 12:50pm	Seats (Total: 30) TWS 0201

ENGL221 **American Literature: Beginning to 1865**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Surveys American writing from the founding of the colonies through the Civil War. Authors such as Taylor, Cooper, Poe, Dickinson.

0101	Sarah Bonnie MWF 1:00pm - 1:50pm	Seats (Total: 30) TWS 1106

ENGL222 **American Literature: 1865 to Present**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL	General Education: DSHU

Surveys American writing from the Civil War through the Cold War. Authors such as Clemens, Frost, Hurston, Bellow.

Click here for more course information.

0301	Susanna Compton	Seats (Total: 30)
	TuTh 9:30am - 10:45am	JMZ 0208

ENGL233 **Introduction to Asian American Literature**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

Restriction: Must not have completed AAST233. Also offered as: AAST233. Credit only granted for: AAST233, AAST298L, or ENGL233.

A survey of Asian American literatures with an emphasis on recurrent themes and historical context.

0101	Lawrence-Minh Davis	Seats (Total: 35)
	M 5:00pm - 7:30pm	SYM 0215

ENGL234 **African-American Literature and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

An exploration of the stories black authors tell about themselves, thei communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.

Also offered as AASP298L. Credit will be granted for one of the following: AASP298L or ENGL234.

0201	Abbey Morgan	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 0103

ENGL235 **U.S. Latina/o Literature and Culture**

Credits: 3	Grading Method: Regular, Pass-Fail	CORE: HL, D	General Education: DSHU, DVUP

Poetry, prose, and theater of Latina/o communities in the United States from origins in Spanish colonization of North America to ongoing development in the 21st century. How authors use literary form to gain insight into human experience, including mortality, religious belief, gender and sexuality, war and peace, family, language use, scientific inquiry, cultural tradition, ecology, and labor. How Latina/o literary traditions have shaped and been shaped by broader currents in American literature. Connections between Latina/o literature and social and artistic developments in other parts of the world, particularly Latin America and the Caribbean. Authors may include Alvar Nunez Cabeza de Vaca, Eulalia Perez, Juan Nepomuceno Seguin, Maria Amparo Ruiz de Burton, Jose Marti, Arthur A. Schomburg, Jesus Colon, Julia de Burgos, Cesar Chavez, Ariel Dorfman, Gloria Anzaldua, Junot Diaz, and Cristina Garcia.

Also offered as AMST298Q. Credit granted for ENGL235 or AMST298Q.

0101	Sharada Balachandran Orihuela MW 5:00pm - 6:15pm	Seats (Total: 30) TWS 0205

ENGL243 What is Poetry?

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

An exploration of arguably the most complex, profound, and ubiquitous expression of human experience. Study through close reading of significant forms and conventions of Western poetic tradition. Poetry's roots in oral and folk traditions and connections to popular song forms.

0101	Amanda Allen MWF 12:00pm - 12:50pm	Seats (Total: 30) ASY 3215
0201	Anne Price TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 0205

ENGL244 The Play's the Thing

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Exploration of drama through a consideration of plot, narrative flow, analytical flow, staging, performance, manuscript and printing history, text and textual change over time, and interpretation. Plays will be approached as public attempts to understand what it means to be alive.

0101	Heather McHale TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMZ 0125

ENGL245 Film Form and Culture

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not have completed FILM245. Also offered as: FILM245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

Click here for more course information.

0101	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 10:00am - 10:50am	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0102	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 11:00am - 11:50am	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0103	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 12:00pm - 12:50pm	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0104	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 1:00pm - 1:50pm	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0201	Steve Beaulieu MW 2:00pm - 3:15pm M 3:30pm - 6:00pm	Seats (Total: 30) TYD 0111 SQH 1101	 Lab
FCH1	Paul Cote W 6:00pm - 7:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0121 ONLINE	

ENGL250 Reading Women Writing

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

Also offered as: WMST255. Credit only granted for: ENGL250 or WMST255.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

Click here for more course information.

0201	Virginia Butler TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1105

ENGL255 Literature of Science and Technology

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL	General Education: DSHU

Credit only granted for: ENGL255 or ENGL278T. Formerly: ENGL278T.

Examines science and technology through the lens of British and America literature, primarily between 1800 and the present. Readings from early natural and experimental philosophers of the Scientific Revolution and Enlightenment. How literary works represent the ethics of science and technology; beneficial developments of science, and also heavy toll of industrialization. Writers studied may include Francis Bacon, Mary Shelley, Charles Darwin, H.G. Wells, Albert Einstein, Aldous Huxley, Richard Feynman, Philip K. Dick, Octavia Butler, Michael Frayn, and Tom Stoppard.

0101	Audrey Farley TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1117
FC01	Heather McHale TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) KEY 0123

ENGL261 Recovering Oral Histories: Caribbean and Latin American Communities in the USA and Britain

Credits: 3	Grading Method: Regular	General Education: DSHU, DSSP

Credit only granted for: ENGL261 or ENGL361.

Project-based course to record oral histories of Caribbean American and Latin American communities in the Washington area. Interview and oral history techniques; recording and videotaping oral histories; transcribing and writing stories as oral histories.

0101	Merle Collins TuTh 9:30am - 10:45am	Seats (Total: 5) TWS 3250

ENGL262 **Introduction to the Hebrew Bible/Old Testament**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Also offered as: JWST262. Credit only granted for: JWST262, HEBR223, or ENGL262. Formerly: HEBR223.

An exploration of the origins and compositional history of biblical literature. Critical study of texts and socio-historical analysis of their background.

0101	Maxine Grossman MWF 11:00am - 11:50am	Seats (Total: 40) SQH 1105

ENGL265 **Lesbian, Gay, Bisexual, and Transgender Literatures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Restriction: Must not have completed LGBT265. Also offered as: LGBT265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	John Macintosh TuTh 12:30pm - 1:45pm	Seats (Total: 30) LEF 1201
0201	Nathaniel Underland TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 1107

ENGL269B **Special Topics in Study Abroad II; Writing Workshop I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269C **Special Topics in Study Abroad II; Writing Workshop II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269R **Special Topics in Study Abroad II; Writing Rome**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL271 **Writing Poems and Stories: An Introductory Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Introduction to theory and practice of writing fiction and poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Martha Hunter TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0124
0201	Quinn McCracken MW 2:00pm - 3:15pm	Seats (Total: 20) TWS 3136
0301	Anne Price TuTh 9:30am - 10:45am *This section is restricted to students in the Jimenez-Porter Writers' House.*	Seats (Total: 20) TWS 0214
FC01	Amanda Allen TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1176

ENGL272 **Writing Fiction: A Beginning Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Introduction to theory and practice of writing fiction. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Jacob Sevick TuTh 9:30am - 10:45am	Seats (Total: 20) SQH 1111
0201	Sabrina Islam MW 2:00pm - 3:15pm	Seats (Total: 20) CCC 1115
0301	Gu Qian TuTh 12:30pm - 1:45pm	Seats (Total: 20) KEY 0120
0401	Theresia Pratiwi TuTh 12:30pm - 1:45pm	Seats (Total: 20) WDS 1131

ENGL273 **Writing Poetry: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Introduction to theory and practice of writing poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Ravenna Komar MW 2:00pm - 3:15pm	Seats (Total: 20) TWS 0221
0201	Christopher Philpot TuTh 2:00pm - 3:15pm	Seats (Total: 20) LEF 1220

ENGL274 **Creative Writing Through The Eyes of African Americans: A Beginning Workshop**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must not have completed ENGL278C, AASP298W, ENGL271, ENGL274, ENGL294, ENGL294N, or AASP274. Also offered as: AASP274. Credit only granted for: ENGL274, ENGL278C, ENGL294, ENGL294N, AASP274 or AASP298W. Formerly: ENGL278C.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Dorothy Phaire	Seats (Total: 20)
	TuTh 9:30am - 10:45am	NCC 0120

ENGL275 **Writing to be Seen: Scriptwriting for Theatre, Film, and Television**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, DSSP

Also offered as: ARHU275. Credit only granted for: ENGL278D, ENGL275, ARHU319B, or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to theory and practice of scriptwriting with opportunity to read, view, evaluate, write, and revise texts meant to be performed for spectators. Practice writing for the stage, film and television, with emphasis on critical reading of textual and visual literary models. Theory and scholarship teaching opportunities and advantages of each format. Application of scholarship to analysis and critique of plays and texts successful across two different formats. Examination of selected scripts, performances, and film and television clips as models for students' own creative work. Frequent writing exercises and use of workshop format.

Also offered as ARHU275.

0101	Douglas Kern	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	TWS 1107

ENGL280 **The English Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Introduction to the structure of English and its historical development with a focus on techniques of linguistic analysis. Major topics include the sound systems of English and its patterns of word formation and sentence structure, and the ways these have changed over time and vary around the world.

0101	Linda Coleman	Seats (Total: 30)
	MWF 11:00am - 11:50am	TWS 0201

ENGL282 **Introduction to Rhetorical Theory**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Basic elements of rhetorical theory. Classical and contemporary perspectives on the nature, functions, and scope of rhetoric. Potential texts for analysis include non-fiction prose, novels, short fiction, philosophical treatises, autobiographies, biographies, and speeches.

0101	Cameron Mozafari MWF 1:00pm - 1:50pm	Seats (Total: 30) WDS 1130	

ENGL289B **The Rites of Discovery: Science, Law, and Literature 1492-1992**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP, SCIS

0101	Ralph Bauer MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) ARM 0135 TWS 0214	Discussion
0102	Ralph Bauer MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 24) ARM 0135 TWS 0214	Discussion
0103	Ralph Bauer MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 24) ARM 0135 TWS 0214	Discussion
0104	Ralph Bauer MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 24) ARM 0135 TWS 0214	Discussion

ENGL289T **Special Topics in English; Uncanny Technologies: Monsters, Droids, and Vampires**

Credits: 3 | Grading Method: Regular | General Education: DSHU, SCIS

I-courses offered through the English Department.

What are the dark, uncertain borders between the human and the nonhuman between the natural and the unnatural, between life and death? What can literature teach us about new technologies that seek to represent or replicate human experience? This course aims to address these questions by looking at a series of nineteenth-century American, French, German, and British novels and stories from Frankenstein (1818) to Dracula (1897) featuring recently introduced media and inventions such as photographs, phonographs, automata, and motion pictures that are concerned, like works of literature, with recording and reproducing human consciousness and the human body.

0102	Jonathan Auerbach MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) TWS 1100 TWS 0221	Discussion

0103	Jonathan Auerbach MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) TWS 1100 TWS 0221	Discussion
	Restricted to students in the Carillon living-learning community.		
0104	Jonathan Auerbach MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) TWS 1100 TWS 0221	Discussion

ENGL289Y **American Fictions: Cross-Examining U.S. Literature, History, and Politics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, SCIS

0101	Peter Mallios MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0102	Peter Mallios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0103	Peter Mallios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 24) TWS 1100 TWS 0236	Discussion
0104	Peter Mallios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 24) TWS 1100 TWS 0236	Discussion

ENGL291 **Intermediate Writing**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DSSP

Writing essays, the revision process, and editing techniques.

Contact department for information to register for this course.

ENGL293 **Writing in the Wireless World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DSSP

Recommended: ENGL101. Credit only granted for: ENGL278Z or ENGL293. Formerly: ENGL278Z.

A hands-on exploration of writing at the intersection of technology and rhetoric. Students will learn to read, analyze, and compose the kind of multimodal documents (combining text, image, and sound) that constitute communication in our digital world.

0101	Ruth Osorio MW 2:00pm - 3:15pm	Seats (Total: 22) TWS 0201

ENGL295 Literature in a Wired World

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Credit only granted for: ENGL278W or ENGL295. Formerly: ENGL278W.

An introduction to the changing nature of books, texts, and narrative in Information Age. Role of book in relation to other media, history of computers and writing, influence of computing on contemporary literature and culture, emerging forms of digital narrative and reading. Practical skills taught range from how to find digital literature and other texts online to using Web media to create literary works.

0101	Kathryn Kaczmarek MWF 12:00pm - 12:50pm	Seats (Total: 30) TWS 1106
FCH1	James Goodwin M 6:00pm - 7:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 25) KEY 0102 ONLINE

ENGL297 Introduction to Professional Writing

Credits: 3 | Grading Method: Regular | General Education: DSSP

Prerequisite: ENGL101.

Introduction to the rhetorical principles and professional practices of professional writing, particularly the research, writing, communication, analytical, and technological skills needed for the Professional Writing minor. How culture and technology relate to the work of professional writing; design principles and rhetorical moves; digital tools, research skills, and writing strategies of professional writers. Develops skills needed to publish a writing portfolio that showcases students' professional writing competencies and projects your professional writer identities.

0101	Scott Wible MW 2:00pm - 3:15pm	Seats (Total: 22) TWS 0224

ENGL301 **Critical Methods in the Study of Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in English Language and Literature program; or must be in Secondary Educ: English Language Arts program.

An introduction to the techniques of literary analysis and a brief survey of the most common approaches to literature.

0101	Sharada Balachandran Orihuela MW 2:00pm - 3:15pm	Seats (Total: 20) TWS 0205
0201	Sharada Balachandran Orihuela MW 3:30pm - 4:45pm	Seats (Total: 20) TWS 0201
0301	Kimberly Coles TuTh 11:00am - 12:15pm	Seats (Total: 20) TWS 0205
0401	Zita Nunes TuTh 12:30pm - 1:45pm	Seats (Total: 20) TWS 0221
0501	Chanon Adsanatham TuTh 2:00pm - 3:15pm	Seats (Total: 20) TWS 0201
0601	Chanon Adsanatham TuTh 12:30pm - 1:45pm	Seats (Total: 20) TWS 3250
0701	Maggie Ray MW 6:00pm - 7:15pm	Seats (Total: 20) WDS 1130

ENGL304 **The Major Works of Shakespeare**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Restriction: Must not have completed ENGL403 or ENGL404.

Representative early, middle, and later works, including comedies, tragedies, histories, and romances. Historical and cultural contexts.

Click here for more course information.

0201	Karen Nelson	Seats (Total: 28)
	MWF 11:00am - 11:50am	TWS 0205

ENGL305 **Shakespeare and His Contemporaries: An Introduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Readings in Shakespeare and contemporaries such as Marlowe, Dekker, Middleton, Jonson, Webster, Chapman, Marston. Elizabethan and Jacobean theatrical and social contexts.

0201	Amanda Bailey	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 0201

ENGL310 **Medieval and Renaissance British Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Detailed study of selected major medieval and Renaissance works written in England. Cultural attitudes and historical contexts. May include Beowulf, Anglo-Saxon lyric, drama, sonnets; works of women writers, Chaucer, Spenser, Sidney. Some readings in Middle English.

0101	Thomas Moser	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 1107

ENGL311 **British Literature from 1600 to 1800**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The culture of seventeenth and eighteenth-century Britain seen through detailed study of selected major texts. Drama, poetry, political writings, and early novels by men and women. Authors may include Donne, Milton, Jonson, Behn, Swift, Pope, Montagu, and Wollstonecraft.

0101	Michael Olmert	Seats (Total: 28)
	MW 2:00pm - 3:15pm	TWS 1106

ENGL313 **American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A detailed study of selected major texts of American literature from th 17th century to the 20th century. Issues such as race, gender, and regionalism. Authors such as Franklin, Hawthorne, Dickinson, Hemingway, and Morrison.

0101	Edlie Wong	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	TWS 0221

ENGL327 **The Suburbs in American Literature and Film**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Explores through written expression and through cinema the diverse and changing world of US suburbia. Premised on two arguments: (1) the suburbs embody many of the contours and contradictions of American life; and (2) the suburbs are far more racially, ethnically, culturally, sexually, economically diverse than mass media suggests. Investigation via prose, poetry, drama, and cinema, as well as secondary sources in sociology, women's studies, ethnic studies, history, cultural studies, psychology, anthropology, and the history of science and technology.

Click here for more course information.

Click here for more course information.

0101	Randy Ontiveros	Seats (Total: 28)
	TuTh 12:30pm - 1:45pm	TWS 1106

ENGL329C **Special Topics in Film Studies; Sexuality in the Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Prerequisite: Two lower-level English courses, at least one in literature; or permission of department. Also offered as CMLT398L. Credit will be granted for only one of the following: CMLT398L, CMLT498L, or ENGL329C.

0101	Eugene Robinson	Seats (Total: 28)	
	TuTh 12:30pm - 1:45pm	TWS 0214	
	Tu 3:30pm - 5:30pm	TWS 1100	Lab

ENGL329J **Special Topics in Film Studies; The Films of Alfred Hitchcock**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department. Also offered as FILM345. Credit only granted for FILM345 or ENGL329J. An examination of important Hitchcock films from the perspective of innovation, aesthetics, and cultural history.

0101	Marianne Conroy	Seats (Total: 28)
	TuTh 12:30pm - 1:45pm	TWS 0201

ENGL329T **Special Topics in Film Studies; The Global Musical**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in various periods and genres of film.

Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department. Also offered as FILM359T. Credit only granted for FILM359T or ENGL329T.

0101	Marit Knollmueller	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 0236

ENGL332 **Representing the Holocaust**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: JWST346. Credit only granted for: ENGL379J, JWST419I, ENGL332, or JWST346. Formerly: ENGL379J or JWST419I.

Different perspectives on how the Holocaust should be represented. Examination of a wide range of texts including fiction, memoirs, critical essays, poems and films in different languages (in translation). Emphasis on the international and comparative nature of Holocaust literary studies and investigation into the propriety of literary representation of historical catastrophe. Consideration of our own role as readers serving as witnesses to an event that has marked itself indelibly in the aesthetic history of the twentieth century.

Additional note: Also offered as CMLT398J, JWST346 and ISRL329J. Credit only granted for CMLT398J, ENGL379J, JWST419J, ENGL332, JWST346, or ISRL329J.

0101	Sheila Jelen	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	TWS 0236

ENGL346 **Twentieth Century Fiction**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Major British, American, and other fiction writers of the twentieth century studied in the context of the broad global, intellectual, and artistic interests of the century.

0101	Brian Richardson	Seats (Total: 28)
	MW 2:00pm - 3:15pm	TWS 0214

ENGL348F **Literary Works by Women; Women on the Frontier**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit , D

The context, form, style and meaning of literary works by women.

0101	Leigh Ryan	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 1106

ENGL348J **Literary Works by Women; Women and Jewish Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit , D

The context, form, style and meaning of literary works by women.

Also offered as JWST319C, CMLT398K and WMST348J. Credit granted for JWST319C or ENGL348J or WMST348J or CMLT398K. An exploration of Jewish women and Jewish literacy. What kind of access throughout Jewish history have women had to Jewish languages and literatures, and how has that affected their role in Jewish society? During the modern period, what is the link between Jewish women's authorship and their reading lives? In thsi class we will study essays, fiction, memoirs, poetry and drama.

0101	Sheila Jelen	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	TWS 0236

ENGL352 **Intermediate Fiction Workshop**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL272; or permission of ARHU-English department. Credit only granted for: ENGL396 or ENGL352. Formerly: ENGL396.

A class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and the fiction of colleagues, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

0101	Carlea Holl-Jensen W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3132
0201	Thomas Earles Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 3252

ENGL353 **Intermediate Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL273; or permission of ARHU-English department. Credit only granted for: ENGL397 or ENGL353. Formerly: ENGL397.

A class in the making of poetry. Intensive discussion of students' own poems. Readings in both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, memorization, and attendance at poetry readings.

0101	Lindsay Bernal Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 3136

ENGL361 **Recovering Oral Histories: Caribbean and Latin American Communities in the USA and Britain**

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

Prerequisite: Must have completed at least one course in English or Latin American Studies. Credit only granted for: ENGL261 or ENGL361.

Project-based course to record oral histories of Caribbean American and Latin American communities in the Washington area. Interview and oral history techniques; recording and videotaping oral histories; transcribing and writing stories as oral histories.

Additional note: Credit only granted for: ENGL261 or ENGL361 or LASC 348R.

0101	Merle Collins TuTh 9:30am - 10:45am	Seats (Total: 10) TWS 3250

ENGL368G **Special Topics in the Literature of Africa and the African Diaspora; Music and African American Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Comparisons among the literary traditions in Africa, the Caribbean, and North and South America.

0101	Julius Fleming	Seats (Total: 28)
	MW 3:30pm - 4:45pm	TWS 0214

ENGL369G **Special Topics in Study Abroad III; Adapting Literature to Screen**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369H **Special Topics in Study Abroad III; London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369K **Special Topics in Study Abroad III; Great Directors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369L **Special Topics in Study Abroad III; Angloamerican Travelers in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Q **Special Topics in Study Abroad III; Literature of the Shoah**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Z **Special Topics in Study Abroad III; The London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL373 **Senior Honors Project**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL370. Restriction: Must be in English Language and Literature program.

Research and writing of senior honors project. Strongly recommended for students planning graduate work.

0101	Randy Ontiveros Tu 3:30pm - 5:30pm	Seats (Total: 20) TWS 3132

ENGL379I **Special Topics in Literature; The Man Booker Prize: Its History and Winners**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Christina Walter TuTh 11:00am - 12:15pm	Seats (Total: 28) TWS 0221

ENGL379M **Special Topics in Literature; British Plays in Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Michael Olmert M 3:30pm - 6:15pm	Seats (Total: 28) TWS 1121

ENGL379O **Special Topics in Literature; Different Planets: Europe and America in the Works of Henry James**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	John Auchard TuTh 9:30am - 10:45am	Seats (Total: 28) TWS 0205

ENGL379V **Special Topics in Literature; Gypsy Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as CMLT398N. Credit will be granted for only one of the following: CMLT398N, CMLT498N, or ENGL379V.

0101	Eugene Robinson TuTh 11:00am - 12:15pm	Seats (Total: 28) TWS 0214

ENGL379Y **Special Topics in Literature; American Science Fiction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Lee Konstantinou MW 5:00pm - 6:15pm	Seats (Total: 28) TWS 0214

ENGL381 **MGA Legislative Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSPW

Prerequisite: Permission of ARHU-English department.

Classroom analysis component of the Maryland General Assembly internship program.

Also offered as HONR368A. Credit wil only be granted for one of the foll owing: ENGL381 or HONR368A. Admission to this course is by application only.

Please see for more details.

0101	Thomas Lowderbaugh Tu 3:30pm - 6:00pm	Seats (Total: 20) TWS 0232

ENGL384 **Concepts of Grammar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the basic units of grammatical description; motivation for and nature of constituent structure and syntactic categories; fundamental grammatical concepts employed in the teaching and learning of languages.

0101	Michael Israel	Seats (Total: 28)
	TuTh 12:30pm - 1:45pm	TWS 0236

ENGL385 **English Semantics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introductory study of meaning in language and paralanguage. General semantics, kinesics, linguistic relativity and recent developments in linguistic semantics.

0101	Michael Israel	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 0221

ENGL388A **Writing Internship; Second Life Workshop in African American Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Field work in English.

Contact department for information to register for this course.

ENGL388D **Writing Internship; Dickinson Electronic Archives**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Martha Nell Smith	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388P **Writing Internship; Pre-professional Writing Skills Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular General Education: DSSP

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Karen Lewis	Seats (Total: 20)
	Contact instructor or department for details.	

ENGL388R **Writing Internship; Romantic Circles**

(Perm req)

Credits: 3 Grading Method: Regular

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Neil Fraistat	Seats (Total: 25)
	Contact instructor or department for details.	

ENGL388T **Writing Internship; Maryland Institute for Technology in the Humanities Internships**

(Perm req)

Credits: 1-6 Grading Method: Regular

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits.

0101	Neil Fraistat	Seats (Total: 20)
	Contact instructor or department for details.	

ENGL388V **Writing Internship; Undergraduate Teaching Assistants in Writing Programs**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Field work in English.

Students taking ENGL388V for the first time should register for section 0101 for 4 credits. When taking the course the course again in subsequent semesters, students should register for 0201 for 3 credits.

0101	Linda Macri	Seats (Total: 16)
	Tu 5:00pm - 6:15pm	TWS 0224
0201	Linda Macri	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

ENGL388W **Writing Internship; Writing Center Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular General Education: DSSP

Field work in English.

Prerequisite: permission of department.

0101	Leigh Ryan, Douglas Kern M 3:30pm - 6:00pm Contact instructor or department for details. *Students registering for 0101 should register for four credits.*	Seats (Total: 20) TWS 3136

ENGL390 **Science Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

Click here for more course information.

0101	Mary Shea MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0224
0201	Mary Shea MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0224
0301	Mary Shea MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0224
0401	Katherine Oneill MWF 12:00pm - 12:50pm	Seats (Total: 19) KEY 0123
0501	Katherine Oneill MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0207
1101	John Matthews TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0207
1301	John Matthews TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0207

1401	Robin Allen-Klein TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0207
1501	Robin Allen-Klein TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
1502	Nicholas Bujak TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0207
1505	Richard Reynnells TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0207
1801	Richard Reynnells W 6:30pm - 9:00pm	Seats (Total: 19) TWS 0234

ENGL391 **Advanced Composition**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

Click here for more course information.

0202	Catherine Bayly MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0221
0301	Catherine Bayly MWF 11:00am - 11:50am	Seats (Total: 19) HBK 0108
0401	Anna Szczepaniec-Bialas MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0234
0402	Robert Crane MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1180
0501	Anna Szczepaniec-Bialas MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1107

0502	Justin Lohr MWF 1:00pm - 1:50pm	Seats (Total: 19) CSS 0201
0701	Martha Thomas MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0207
0801	Martha Thomas MW 5:00pm - 6:16pm	Seats (Total: 19) TWS 1107
1101	Danuta Hinc TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0224
1201	Danuta Hinc TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0224
1202	Instructor: TBA	Seats (Total: 19)
1301	Danuta Hinc TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0232
1701	Mark Fitzgerald Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0223
1901	Mark Fitzgerald Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0223
BL01	Melanie Faith Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) TYD 1108 ONLINE
BL02	Melanie Faith Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) ASY 3219 ONLINE
BL04	Melanie Faith Tu 3:30pm - 4:45pm Th 3:30pm - 4:45pm	Seats (Total: 19) JMZ 1122 ONLINE

ENGL391H **Advanced Composition**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

For students in the University or departmental Honors program.

Click here for more course information.

0201	Mark Forrester MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0207

ENGL392 **Legal Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Conventions of legal writing and research. Students learn how to read and write about cases, statutes or other legislation; how to apply legal principles to fact scenarios; and how to present a written analysis for readers in the legal profession. Assignments may include the law-school application essay, case briefs, legal memos, and client letters.

Click here for more course information.

0201	Robin Earnest MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0230
0301	Robin Earnest MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0230
1101	John Kim TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0234
1201	William Schatz TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0234
1301	William Schatz TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0234
1601	Michael Winett M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232

1701	Michael Winett Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1801	Michael Winett W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232

ENGL393 **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Click here for more course information.

0101	Samantha Gendler MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0232
0102	Patrick Nelson MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0201
0201	Joan Mooney MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1105
0202	Samantha Gendler MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0232
0301	Peter Grybauskas MWF 11:00am - 11:50am	Seats (Total: 19) TWS 1105
0302	Samantha Gendler MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0232
0303	Sarah Dammeyer MWF 11:00am - 11:50am	Seats (Total: 19) TYD 2102
0401	Joan Mooney MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 1105
0402	Patrick Nelson MWF 12:00pm - 12:50pm	Seats (Total: 19) CSS 0201

0403	Zein El-Amine MWF 12:00pm - 12:50pm	Seats (Total: 19) JMZ 1122
0501	Peter Grybauskas MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1105
0801	Candace Orsetti MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0230
1001	Caleb Kriesberg TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1105
1101	Daniel Saalfeld TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0230
1102	Caleb Kriesberg TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 1215
1201	Joshua Buursma TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1105
1301	Nicholas Bujak TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1105
1302	Daniel Saalfeld TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0230
1401	Nicholas Bujak TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 1105
1402	Daniel Saalfeld TuTh 2:00pm - 3:15pm	Seats (Total: 29) TWS 0230
1505	Mary Sirianni TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105
1601	Kelly Cresap M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0214
1602	Andrew Delfino M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230

1603	Amanda Olson M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224
1701	Daune O'Brien Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0221
1702	Amanda Olson Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224
1801	Kelly Cresap W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0221
1802	Daniel Pendick W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230
1803	Daune O'Brien W 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106
1901	Andrew Delfino Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230
1902	Daune O'Brien Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0221
3001	Alexandra Calloway F 9:00am - 11:40am	Seats (Total: 19) TWS 3252
9001	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE

BL21	Pamela Orel M 2:00pm - 3:15pm W 2:00pm - 3:15pm	Seats (Total: 19) SQH 1105 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL22	David Miles W 2:00pm - 3:15pm M 2:00pm - 3:15pm	Seats (Total: 19) ASY 3217 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL23	Pamela Orel M 3:30pm - 4:45pm W 3:30pm - 4:45pm	Seats (Total: 19) ASY 3217 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL24	David Miles W 3:30pm - 4:45pm M 3:30pm - 4:45pm	Seats (Total: 19) WDS 1127 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL31	Pamela Orel M 5:00pm - 6:15pm W 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL42	Pamela Orel M 8:00pm - 9:15pm W 8:00pm - 9:15pm	Seats (Total: 19) TWS 1105 ONLINE
BL51	Sheila Lalwani Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) SPH 0301 ONLINE
BL61	Sheila Lalwani Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) PLS 1158 ONLINE
BL62	Michelle Von Euw Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) ONLINE ASY 3221

BL65	Sheila Lalwani Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) EDU 2102 ONLINE
BL66	Michelle Von Euw Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) ONLINE EGR 1110
BL75	Michelle Von Euw Th 3:30pm - 4:45pm Tu 3:30pm - 4:45pm	Seats (Total: 19) WDS 1130 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	
BL81	Sajeela Yaqub Th 5:00pm - 6:15pm Tu 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234 ONLINE
	Blended Learning courses combine face-to-face and online interactions.	

ENGL393H **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Restricted to students in the University or departmental Honors program.

Click here for more course information.

BL01	Christopher Crane M 3:30pm - 4:45pm W 3:30pm - 4:45pm	Seats (Total: 19) EGR 1110 ONLINE

ENGL393X **Technical Writing**

(Perm req)

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Limited to students for whom English is a second language and who have a score below any of the following: SAT Verbal 400, TOEFL 575, CELT 250. Students who have received an "A" in ENGL 101 or its equivalent cannot register for ENGL 393X.

Click here for more course information.

1501	Daniel Saalfeld TuTh 3:30pm - 4:45pm	Seats (Total: 15) TWS 0230

ENGL394 **Business Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world-letters, memos, short reports, and proposals. Principles of rhetoric and effective style.

Click here for more course information.

0101	Mary Turner MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0234
0201	Mary Turner MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0234
0301	Ceil Goldberg MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0223
0401	Ceil Goldberg MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0223
0402	Mary Turner MWF 12:00pm - 12:50pm	Seats (Total: 19) TWS 0207
0501	Ceil Goldberg MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0223
0601	James Mattson MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0234
0602	Ellen Blumner MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0232

0701	Ellen Blumner MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0232
0702	James Mattson MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
0802	Ellen Blumner MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0232
1102	David Miles TuTh 9:30am - 10:45am	Seats (Total: 19) HBK 1108
1301	David Miles TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1115
1302	Elizabeth McClure TuTh 12:30pm - 1:45pm	Seats (Total: 19) HBK 0123
1401	Thomas Lowderbaugh TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0232
1501	Elizabeth McClure TuTh 3:30pm - 4:45pm	Seats (Total: 19) WDS 1131
1502	Danuta Hinc TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0224
1505	Elizabeth McClure TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0221
1506	Elliot Berger TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0236
1508	Elliot Berger TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 0201
1701	Jonathan Rick Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1902	Carol Cron Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234

9001	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Instructor: TBA	Seats (Total: 19)
BL01	Clare Parsons Tu 8:00am - 9:15am Th 8:00am - 9:15am	Seats (Total: 19) TWS 0234 ONLINE
BL02	Clare Parsons Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) PLS 1164 ONLINE
BL03	Clare Parsons Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) PLS 1164 ONLINE
BL10	Katherine Wilson M 2:00pm - 3:15pm W 2:00pm - 3:15pm	Seats (Total: 19) SQH 1111 ONLINE
BL11	Katherine Wilson M 3:30pm - 4:45pm W 3:30pm - 4:45pm	Seats (Total: 19) WDS 1131 ONLINE
SG91	Katherine Robinson TuTh 12:30pm - 1:45pm *Restricted to BMGT-Shady Grove Juniors in Marketing and International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.*	Seats (Total: 17) BLD2 3062

SG93	Katherine Robinson TuTh 3:30pm - 4:45pm	Seats (Total: 17) BLD2 3062
	Restricted to BMGT-Shady Grove Juniors majoring in International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.	
SG98	Holly Smith TuTh 11:00am - 12:15pm	Seats (Total: 19) Location: TBA

ENGL395 **Writing for Health Professions**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

Click here for more course information.

0101	James Goodwin MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0221
0201	James Goodwin MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0205
0501	James Goodwin MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0234
0601	Eleanor Tipton MW 2:00pm - 3:15pm	Seats (Total: 19) EGR 3114
0801	Joseph Wappel MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0236
0901	Joseph Wappel MW 6:30pm - 7:45pm	Seats (Total: 19) TWS 0236
1001	Joseph Angelella TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0201

1101	Michael Schmidt TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 1120
1301	Michael Schmidt TuTh 12:30pm - 1:45pm	Seats (Total: 19) HBK 1112
1401	Joseph Angelella TuTh 2:00pm - 3:15pm	Seats (Total: 19) SYM 0209
1402	Kisa Lape TuTh 2:00pm - 3:15pm	Seats (Total: 19) ASY 3221
1501	Joseph Angelella TuTh 3:30pm - 4:45pm	Seats (Total: 19) CSS 0201
1505	Joseph Angelella TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0214
1507	Kisa Lape TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 0214
1508	Kisa Lape TuTh 8:00pm - 9:15pm	Seats (Total: 19) TWS 0214
1801	Eleanor Tipton W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0214
3001	John Matthews F 9:00am - 11:40am	Seats (Total: 19) ARC 1125
BL01	John Matthews Tu 8:00am - 9:15am Th 8:00am - 9:15am	Seats (Total: 19) TWS 0207 ONLINE
BL02	Scott Wible MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 19) ARC 1127 ONLINE
SG91	Joseph Wappel TuTh 11:00am - 12:15pm	Seats (Total: 19) Location: TBA

ENGL398A **Topics in Professional Writing; Writing for the Arts**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL391A. Credit will be granted for only one of the following: ENGL398A or ENGL391A. Formerly ENGL391A. An advanced composition course which emphasizes writing about the arts.

1001	Caroline Wilkins TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1107
1101	Caroline Wilkins TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1105
1601	Rebecca Ritzel M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1801	Rebecca Ritzel W 6:30pm - 9:10pm	Seats (Total: 19) TWS 1105

ENGL398B **Topics in Professional Writing; Writing for Social Entrepreneurship**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0201	Mrim Boutla MWF 10:00am - 10:50am	Seats (Total: 19) WDS 1131
0301	Mrim Boutla MWF 11:00am - 11:50am	Seats (Total: 19) LEF 1222
0601	Eric Thiel MW 2:00pm - 3:15pm	Seats (Total: 19) JMZ 3120

0701	Eric Thiel MW 3:30pm - 4:45pm	Seats (Total: 19) JMZ 1224
0801	Eric Thiel MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 1106
1601	Roxanne Clements M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201

ENGL398C **Topics in Professional Writing; Writing Case Studies and Narratives**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition course which emphasizes writing cases and investigative reports.

0701	Joshua Buursma MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 1106
0801	Joshua Buursma MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0207
1507	Joshua Buursma MW 6:30pm - 7:45pm	Seats (Total: 19) TWS 0207
SG91	Joseph Wappel TuTh 9:30am - 10:45am	Seats (Total: 19) BLD3 2203
	Registration is restricted to CCJS-Shady Grove students. Please list room as TBA.	

ENGL398E **Topics in Professional Writing; Writing about Economics**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394E. Credit will be granted for only one of the following : ENGL398E or ENGL394E. Formerly ENGL394E. A business writing class focusing on writing about economics.

0801	Michael Winett MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0224

ENGL398L **Topics in Professional Writing; Scholarly Writing in the Humanities**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition class focusing on the norms and procedures of advanced academic writing.

0301	Mark Forrester MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0207

ENGL398N **Topics in Professional Writing; Writing for Non-Profit Organizations**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394N. Credit will be granted for only one of the following ENGL398N or ENGL394N. Formerly ENGL394N. A busniness writing class focusinog on writing about nonprofits.

0301	Kara Pleasants MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0234
0401	Kara Pleasants MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1184
0601	Elizabeth Fixsen MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 1105

1201	David Todd TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0207
1301	David Todd TuTh 12:30pm - 1:45pm	Seats (Total: 19) KEY 0121
1302	Rebecca Holden TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0224
1401	Rebecca Holden TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0224

ENGL398R **Topics in Professional Writing; Writing Non-Fictional Narratives**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

1001	Pamela Gerhardt TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0232
1101	Pamela Gerhardt TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0232
1201	Pamela Gerhardt TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0232
1401	Stewart Foehl TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0234
1501	Stewart Foehl TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
1505	Pamela Gerhardt TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0230

ENGL398V **Topics in Professional Writing; Writing about the Environment**

Credits: 3 Grading Method: Regular General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL393E. Credit will be granted for only one of the following ENGL398V or ENGL393E. Formerly ENGL393E.

0601	Ann Bracken MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0207
0701	Ann Bracken MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
1201	Ann Mason TuTh 11:00am - 12:15pm	Seats (Total: 19) SKN 1112
1301	Ann Mason TuTh 12:30pm - 1:45pm	Seats (Total: 19) KEY 0123
1701	Ann Mason Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 1107
1901	Ann Mason Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 1107

ENGL403 Shakespeare: The Early Works

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected works from the first half of Shakespeare's career. Generic issues of early histories, comedies, tragedies. Language, theme, dramatic technique, sources, and early modern English social-historical context.

0101	Theodore Leinwand TuTh 12:30pm - 1:45pm	Seats (Total: 23) TWS 1107

ENGL404 Shakespeare: The Later Works

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected plays from the second half of Shakespeare's career. Generic issues of later tragedies, later comedies, romances. Language, theme, dramatic technique, sources, and early modern English social-historical context.

0101	Amanda Bailey	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 1106

ENGL409C **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409L **Study Abroad Special Topics IV; Literature of London**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409P **Study Abroad Special Topics IV; Phonies, Fakes, Liars and Conmen: Readings in Fact and Fiction**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL414 **Milton**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Poetry and major prose in their social, political, and literary-historical contexts. Special attention to Paradise Lost. Other works may include Samson Agonistes and shorter poems.

0201	Kimberly Coles	Seats (Total: 23)
	TuTh 2:00pm - 3:15pm	TWS 1106

ENGL425 **Modern British Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Major Modernist writers in English prose and poetry since 1900. Such writers as Eliot, Larkin, Forster, Burgess, Durrell, Henry Green, Golding, Auden, Malcolm Lowry, Joyce, and Yeats.

0101	Brian Richardson	Seats (Total: 23)
	MW 5:00pm - 6:15pm	TWS 0221

ENGL428X **Seminar in Language and Literature; Color Lines and the American 1850s**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

Restriction: Junior standing or higher; and must be in English Language and Literature program. Repeatable to 9 credits if content differs. Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

0101	Robert Levine	Seats (Total: 16)
	MW 3:30pm - 4:45pm	TWS 0221

ENGL428Y **Seminar in Language and Literature; Another Green World: Nature and Early English Language**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

Restriction: Junior standing or higher; and must be in English Language and Literature program. Repeatable to 9 credits if content differs. Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

0101	Kellie Robertson	Seats (Total: 16)
	TuTh 9:30am - 10:45am	TWS 3136

ENGL429 **Independent Research in English**

(Perm req)

Credits: 1-6 Grading Method: Regular

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Prerequisite: ENGL301 and two English courses, excluding Fundamental Studies requirement.

Contact department for information to register for this course.

ENGL431 **American Literature: 1810 to 1865, the American Renaissance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Nationalism, Sentimentalism, Transcendentalism. Writers such as Douglass, Stowe, Melville.

0101	Edlie Wong	Seats (Total: 23)
	TuTh 5:00pm - 6:15pm	TWS 0201

ENGL432 **American Literature: 1865 to 1914, Realism and Naturalism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Reconstruction, Realism, Naturalism. Representative writers such as Dickinson, James, Dreiser.

0101	John Auchard	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	TWS 0205

ENGL433 **American Literature: 1914 to the Present, the Modern Period**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism, Postmodernism. Writers such as Stevens, Stein, Ellison.

0101	Peter Mallios	Seats (Total: 23)
	MW 3:30pm - 4:45pm	TWS 0236

ENGL439A **Major American Writers after 1865; Dickinson, Whitman, and Contemporary American Poets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Also offered as LGBT459B. Credit will be granted for ENGL439A or LGBT 459B.

0101	Martha Nell Smith	Seats (Total: 23)
	MW 2:00pm - 3:15pm	TWS 0236

ENGL439M **Major American Writers after 1865; Major American Writers After 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Two writers studied intensively each semester.

Contact department for information to register for this course.

ENGL448A **Literature by Women of Color; Caribbean Literature by Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Literature by women of color in the United States, Britain, and in colonial and post-colonial countries.

Prerequisite: two English courses in literature or permission of department. Repeatable to 9 credits if content differs. Also offered as LASC448A and WMST448A. Credit will be granted for only one of the only following: ENGL448A, LASC448A or WMST448A.

0101	Merle Collins	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 1107

ENGL457 **The Modern Novel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Modernism in the novel of the twentieth century. Such writers as Joyce, Lawrence, Murdoch, James, Forster, Faulkner, Hemingway, Fitzgerald, Ellison, Welty, Nabokov and Malamud.

0101	Christina Walter	Seats (Total: 23)
	TuTh 2:00pm - 3:15pm	TWS 0214

ENGL471 **African-American Literature: 1910-1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Emergence of modernism in African-American writing including debates over the definition of unique African-American aesthetics, with emphasis on conditions surrounding the production of African-American literatures.

Also offered as AASP478N. Credit granted for ENGL471 or AASP478N.

0101	Julius Fleming	Seats (Total: 23)
	MW 2:00pm - 3:15pm	TWS 1107

ENGL472 **African-American Literature: 1945 to Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Transformation of African-American literatures into modern and postmodern forms. Influenced by World War II and the Civil Rights and Black Power movements, this literature is characterized by conscious attempts to reconnect literary and folk forms, the emergence of women writers, and highly experimental fiction.

Also offered as ENGL472. Credit granted for ENGL472 or AASP478K.

Contact department for information to register for this course.

ENGL475 **Postmodern Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

The origins and ongoing development of postmodern literature. Aspects o the "postmodern condition," such as the collapse of identity, the erasure of cultural and aesthetic boundaries, and the dissolution of life into textuality. The novel and other genres and media.

0101	Matthew Kirschenbaum	Seats (Total: 23)
	TuTh 3:30pm - 4:45pm	TWS 0221

ENGL479C **Selected Topics in English and American Literature after 1800; Stand-Up As/And American Culture**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Thomas Clark	Seats (Total: 23)
	TuTh 3:30pm - 4:45pm	TWS 0205

ENGL487 **Foundations of Rhetoric**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL487 or COMM401.

Principles and approaches to the theory, criticism, and historical understanding of rhetorical discourse.

0101	Chanon Adsanatham	Seats (Total: 23)
	TuTh 5:00pm - 6:15pm	TWS 0205

ENGL488G **Topics in Advanced Writing; Rhetoric of Style**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Different genres of technical and professional writing including proposal writing, computer documentation, technical report writing, instruction manuals, etc. Students will analyze models of a genre, produce their own versions, test, edit and revise them.

0101	Vessela Valiavitcharska	Seats (Total: 18)
	TuTh 3:30pm - 4:45pm	TWS 0236

ENGL488J **Topics in Advanced Writing; The Posthuman Imagination**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Different genres of technical and professional writing including proposal writing, computer documentation, technical report writing, instruction manuals, etc. Students will analyze models of a genre, produce their own versions, test, edit and revise them.

0101	Lee Konstantinou	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TWS 3132

ENGL489P **Special Topics in English Language; Language and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Current topics in language, such as linguistics, history of rhetoric, and composition studies.

0101	Linda Coleman MWF 1:00pm - 1:50pm	Seats (Total: 23) TWS 0205

ENGL495 **Independent Study in Honors**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL373 and ENGL370. Restriction: Must be in English Language and Literature program; and candidacy for honors in English.

Completion and presentation of the senior honors project.

Contact department for information to register for this course.

ENGL498 **Advanced Fiction Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An advanced class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and to colleagues' fiction, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

Prerequisite: ENGL352 or ENGL396; or permission of department.

0101	Howard Norman Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 1106
0201	Emily Mitchell Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 1106

ENGL499 **Advanced Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An advanced class in the making of poetry. Intensive discussion of students' own poems. Readings include both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, and attendance at poetry readings.

Prerequisite: ENGL353; or permission of ARHU-English department. Repeatable to 9 credits if content differs. Formerly: ENGL497.

0101	Elizabeth Arnold Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 3134

ENGL601 **Literary Research and Critical Contexts**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Theresa Coletti Th 3:30pm - 6:00pm	Seats (Total: 14) TWS 3132

ENGL602 **Critical Theory and Literary Criticism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An introduction to critical theory and literary criticism, with an overview of major movements (including formalism, structuralism and poststructuralism, Marxism, psychoanalysis, and feminism). Designed to help graduate students assess the various ways of approaching and writing about literature.

0101	Linda Kauffman M 6:30pm - 9:00pm	Seats (Total: 14) TWS 3136

ENGL611 **Approaches to College Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARHU-English department. Additional information: Required for graduate assistants (optional to other graduate students).

A seminar emphasizing rhetorical and linguistic foundations for the handling of a course in freshman composition.

0101	Jessica Enoch M 3:30pm - 6:00pm	Seats (Total: 18) TWS 3132

ENGL621 **Readings in Renaissance English Literature**

Credits: 3 Grading Method: Regular, Audit

For ENGL, CRWR, and CMLT majors only.

0101	Scott Trudell Th 6:30pm - 9:00pm	Seats (Total: 14) TWS 3136

ENGL624 **Readings in English Romantic Literature**

Credits: 3 Grading Method: Regular, Audit

For ENGL, CRWR, and CMLT majors only.

0101	Orrin Wang W 6:30pm - 9:00pm	Seats (Total: 14) TWS 3252

ENGL626 **Readings in American Literature before 1865**

Credits: 3 Grading Method: Regular, Audit

For ENGL, CRWR, and CMLT majors only.

0101	Robert Levine M 6:30pm - 9:00pm	Seats (Total: 16) TWS 3252

ENGL668K **Readings in Modern Literary Theory; Critical Topics in Digital Humanities**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Matthew Kirschenbaum Tu 6:30pm - 9:00pm	Seats (Total: 14) TWS 3132

ENGL688 **Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Poetry workshop.

0101	Elizabeth Arnold W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3134
0201	Stanley Plumly W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3136

ENGL689 **Fiction Workshop**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Fiction workshop.

0101	Tania James W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3248
0201	Howard Norman W 3:30pm - 6:00pm	Seats (Total: 12) TWS 3250

ENGL699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENGL719G **Seminar in Renaissance Literature; On Thinking in Images: Analogy and Metaphor as Critical Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Gerard Passannante Tu 3:30pm - 6:00pm	Seats (Total: 11) TWS 3248

ENGL748J **Seminar in American Literature; Translation and African American Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Zita Nunes Th 3:30pm - 6:00pm	Seats (Total: 11) TWS 3250

ENGL758A **Literary Criticism and Theory; Writing Off the Self, Texts at Play**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

0101	Martha Nell Smith M 3:30pm - 6:00pm	Seats (Total: 11) TWS 3248

ENGL775 Seminar in Composition Theory

Credits: 3 Grading Method: Regular, Audit

Readings and research in recent theories of effective writing.

For ENGL, CRWR, and CMLT majors only.

0101	Shirley Logan Tu 3:30pm - 6:00pm	Seats (Total: 11) TWS 3250

ENGL789B Form and Theory in Fiction; Writing the Impossible: Postmodernism, Magical Realism, Weird Tales, Science Fiction

Credits: 3 Grading Method: Regular, Audit

A variety of prose modes (mediations, psychological studies, reportage myths, collage, magic realism, satire, etc.). Some of the writers to be read include Kafka, Cather, Barth, Kundera, and Barthelme.

For ENGL, CRWR, and CMLT majors only.

0101	Emily Mitchell Tu 3:30pm - 6:00pm	Seats (Total: 11) TWS 3134

ENGL798B Critical Theory Colloquium

(Perm req)

Credits: 1 Grading Method: Regular, Audit

An intensive advanced exploration of current problems and issues in critical theory.

0101	Christina Walter Contact instructor or department for details.	Seats (Total: 10)

ENGL799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENGL878 **Pedagogical Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL879 **Professional Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENMA Engineering, Materials Fall 2015

ENMA150 **Materials of Civilization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

The discovery of new materials has shaped history and built civilizations. The utilization, properties and production techniques of materials from the Bronze Age up through modern times and into the future will be traced. These materials are explained by considering their atomic structure, the binding forces between atoms and their arrangement, and how controlling the structure controls the materials properties.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Robert Briber TuTh 3:30pm - 4:45pm W 2:00pm - 2:50pm	Seats (Total: 40) CHE 2108 CHE 2136	 Discussion
0102	Robert Briber TuTh 3:30pm - 4:45pm Th 11:00am - 11:50am	Seats (Total: 40) CHE 2108 PHY 0405	 Discussion

ENMA180 **Materials Science and Engineering: The Field and the Future**

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Overview of the profession and the components of the Materials Science and Engineering program. Students will become familiar with the departmental faculty, areas of specialization within MSE, professional society student chapter, research opportunities and other resources available to students.

0101	Kathleen Hart M 4:00pm - 4:50pm	Seats (Total: 44) CHM 1228

ENMA300 **Introduction to Materials Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENME382. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	Yifei Mo TuTh 11:00am - 12:15pm	Seats (Total: 120) CHE 2110
0201	Liangbing Hu TuTh 8:00am - 9:15am	Seats (Total: 100) CHE 2110
0301	Patrick McCluskey MWF 10:00am - 10:50am	Seats (Total: 120) CSS 2324

ENMA312 **Experimental Methods in Materials Science**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Corequisite: ENMA460. Restriction: Junior standing or higher.

Introduction to experimental methods in materials characterization; synthesis of colloidal nanoparticles; X-ray diffraction and light scattering; optical microscopy; thermal conductivity and expansion; electrical measurements; heat capacity; computational materials design.

0101	Luz Martinez-Miranda Tu 2:00pm - 3:15pm M 9:00am - 11:50am	Seats (Total: 12) EGR 3106 KEB 1135	 Lab
0102	Luz Martinez-Miranda Tu 2:00pm - 3:15pm W 9:00am - 11:50am	Seats (Total: 10) EGR 3106 KEB 1135	 Lab

ENMA362 **Mechanical Properties**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Junior standing or higher; and permission of ENGR-Materials Science & Engineering department.

Overview of Mechanical Behavior, Elastic Behavior, Dislocations, Plastic Deformation, Strengthening of Crystalline Materials, Composite Materials, High Temperature Deformation of Crystalline Materials, Permanent Deformation of Noncrystalline Materials, Tensile Fracture at Low Temperatures, Engineering Aspects of Fracture, High Temperature Fracture, Fatigue, and Experimental determination of Mechanical Properties including Hardness of Metals and Strength of Metals, Polymers, Ceramics and Composites.

For ENMA majors only.

0101	Sreeramamurthy Ankem MW 12:00pm - 1:15pm Tu 9:00am - 11:00am	Seats (Total: 22) ANS 0412 KEB 1135	 Lab
0102	Sreeramamurthy Ankem MW 12:00pm - 1:15pm Th 9:00am - 11:00am	Seats (Total: 22) ANS 0412 KEB 1135	 Lab

ENMA410 **Materials for Energy I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in ENMA300; and permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA410 or ENMA489H. Formerly: ENMA 489H.

The goal is to demonstrate the role of materials in solving one of the most critical socio-economic issues of our time, affordable and sustainable energy. There will be a discussion of U.S. and global energy and related environmental issues. Topics covered include: fuel cells and batteries (electrochemical energy conversion and storage); catalysts and membrane separations (fossil fuel and biomass energy conversion); and nuclear fuels.

0101	Eric Wachsman	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	EGR 3102

ENMA422 **Radiation Effects of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300; and permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA422 or ENMA489E. Formerly: ENMA489E.

Ionizing radiation, radiation dosimetry and sensors, radiation processing, radiation effects on: polymers, metals, semiconductors, liquids, and gases. Radiation in advanced manufacturing, radiation-physical technology.

0101	Mohamad Al-Sheikhly	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CHE 2136

ENMA430 **Nanosized Materials**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS431 or ENMA460; and (CHEM231 or CHEM481). Credit only granted for: ENMA430 or ENMA489G. Formerly: ENMA489G.

Practical aspects of nanoscale materials fabrication and utilization will be covered. It presents various approaches for the synthesis of nanoparticles, nanowires, and nanotubes, and discusses the unique properties observed in these structures and devices made with them.

0101	Oded Rabin	Seats (Total: 35)
	MW 3:30pm - 4:45pm	EGR 3106

ENMA441 **Characterization of Materials**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department; and senior standing. Credit only granted for: ENMA489T or ENMA441. Formerly: ENMA489T.

Techniques to characterize the properties of materials whose characteristic dimensions range from nanometers to macroscopic. These include conventional crystalline and noncrystalline materials, with a special attention to materials of current technological interest. The course will include recent results from the scientific literature.

0101	Raymond Phaneuf	Seats (Total: 48)
	TuTh 11:00am - 12:15pm	CHE 2118

ENMA443 Phontonic Materials, Devices and Reliability

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department; and junior standing or higher. Credit only granted for: ENMA443 or ENMA489Z. Formerly: ENMA489Z.

The course focuses on the understanding of the basic optical processes in semiconductors, dielectrics and organic materials. The application of such materials in systems composed of waveguides, light emitting diodes and lasers, as well as modulators is developed.

0101	Aristos Christou	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 1102

ENMA460 Physics of Solid Materials

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241. Restriction: Junior standing or higher; and must be in Engineering: Materials Science program. Also offered as: PHYS431. Credit only granted for: ENMA460 or PHYS431.

Classes of materials; introduction to basic ideal and real materials' behavior including mechanical, electrical, thermal, magnetic and optical responses of materials; importance of microstructure in behavior. One application of each property will be discussed in detail.

0101	Ichiro Takeuchi	Seats (Total: 50)
	MW 5:00pm - 6:15pm	CHM 0115

ENMA466 Advanced Materials Fabrication Laboratory

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENMA465; and permission of ENGR-Materials Science & Engineering department.

This course allows students an opportunity to study advanced materials systems in depth through a combination of lectures and hands-on laboratory experiments. Students will be trained in materials processing and characterization techniques. Each student will fabricate materials and devices in our state-of-the-art nanofabrication clean room facility (Fablab), as well as evaluate them using a variety of characterization techniques.

0101	Malakhi Noked W 10:00am - 11:30am Tu 12:30pm - 3:30pm	Seats (Total: 5) CHE 2140 KEB 2300	 Lab
0102	Malakhi Noked W 10:00am - 11:30am M 9:00am - 12:00pm	Seats (Total: 5) CHE 2140 KEB 2300	 Lab
0103	Malakhi Noked W 10:00am - 11:30am F 12:30pm - 3:30pm	Seats (Total: 5) CHE 2140 KEB 2300	 Lab

ENMA471 **Kinetics, Diffusion and Phase Transformations**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENMA461. Restriction: Junior standing or higher; or permission of ENGR-Materials Science & Engineering department.

Fundamentals of diffusion, the kinetics of reactions including nucleation and growth and phase transformations in materials.

0101	Manfred Wuttig MW 2:00pm - 3:15pm	Seats (Total: 50) PLS 1130	

ENMA499 **Senior Laboratory Project**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	Manfred Wuttig	Seats (Total: 6)
	Contact instructor or department for details.	

ENMA613 **Materials Science of Quantum Computing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Materials Science & Engineering department. Recommended: Strongly recommended coursework in introduction to materials science, electronic materials, solid state physics, quantum mechanics and basic knowledge in computer programming or MATLAB.

Quantum computing is the emerging field that attempts to perform information processing on a quantum mechanical state (qubit). This graduate level course targets advanced undergraduate and beginning graduate students for an introduction to this field of applied physics and the related material structures needed for elementary quantum computing. This course focuses on targeted topics of quantum mechanics and solid state physics as applicable to ion trap qubits, electron spin qubits, and superconducting qubits with connections to actual material structures their design and means of fabrication.

0101	Christopher Richardson	Seats (Total: 15)
	MW 12:30pm - 1:45pm	SPH 0302

ENMA624 **Radiation Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA624 or ENMA698E. Formerly: ENMA698E.

Ionizing radiation, radiation dosimetry and sensors, radiation processing, radiation effects on ; polymers, metals, semiconductors, liquid, and gas, radiation in advance manufacturing, radiation-physical technology.

0101	Mohamad Al-Sheikhly	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CHE 2136

ENMA626 **Fundamentals of Failure Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Also offered as: ENRE600. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600. Formerly: ENMA698M and ENMA698R.

Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.

0101	Aristos Christou	Seats (Total: 5)
	M 1:00pm - 3:40pm	JMP 2217

ENMA630 **Advanced Nanosized Materials: Synthesis and Utilization**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA630 or ENMA6998G. Formerly: ENMA698G.

This course covers fundamental theory and fabrication-related aspects o nanoscale materials science. Topics: Quantization of energy level in solids and its effect on properties. Nucleation, growth and aging. Nano-epitaxy. Anisotropic crystal engineering. Electrical Transport. Nano-magnetism. Properties of carbon nanotubes. Applications in electronics, optics, data storage, energy and biomedicine.

0101	Oded Rabin	Seats (Total: 8)
	MW 3:30pm - 4:45pm	EGR 3106

ENMA643 **Advanced Photonic Materials**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698Z, ENRE648Z, or ENMA643. Formerly: ENMA698Z.

The understanding of the basic optical processes in photonic devices an systems compsed of waveguides, light emitting diodes and lasers, as well as modulators is developed. Lectures on basic degradation mechanisms of such systems will be presented. The area of organic based LED reliability will be covered from the point of view of the stability of the organic-inorganic interface.

0101	Aristos Christou TuTh 3:30pm - 4:45pm	Seats (Total: 15) EGR 1104

ENMA650 **Nanometer Structure of Materials**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENMA460; or students who have taken courses with comparable content may contact the department. And permission of ENGR-Materials Science & Engineering department.

The basic concepts required for understanding nanostructured materials and their behavior will be covered. Topics covered include the structural aspects of crystalline and amorphous solids and relationships to bonding types, point and space groups. Summary of diffraction theory and practice. The reciprocal lattice. Relationships of the microscopically measured properties to crystal symmetry. Structural aspects of defects in crystalline solids.

0101	Gottlieb Oehrlein MW 5:00pm - 6:15pm	Seats (Total: 25) CHM 0124

ENMA660 **Thermodynamics in Materials Science**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Corequisite: ENMA650. Restriction: Permission of ENGR-Materials Science & Engineering department.

Thermodynamics of engineering solids. Thermal, diffusional and mechanical interactions in macroscopic systems. Systems in thermal contact, systems in thermal and diffusive contact, systems in thermal and mechanical contact.

0101	Alexander Roytburd MW 3:30pm - 4:45pm	Seats (Total: 25) EGR 2154

ENMA680 **Determination of Structure, Chemical Composition and Defects in Materials**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENMA650.

Basic principles of electron microscopy theory, electron diffraction, and imaging theory. The electron beam sample interaction that gives rise to different signals is related to the structural and compositional information that is obtained from a sample using a TEM. The most common TEM techniques for structural characterization of a sample, namely, electron diffraction, bright/dark field imaging, and high resolution lattice imaging are discussed. Compositional information obtained from x-ray fluorescence and electron energy loss as well as the resolution of these techniques is also covered. A description of techniques used to study magnetic materials is also presented.

0101	Lourdes Salamanca-Riba TuTh 3:30pm - 4:45pm	Seats (Total: 17) CHE 2136	

ENMA683 **Structural Determination Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698L or ENMA683. Formerly: ENMA698L.

The operation of an electron microscope is covered. TEM techniques that are used to characterize the structure, defects and composition of a sample are presented and used to study a variety of materials. These techniques are: electron diffraction patterns, bright/dark field imaging, high resolution lattic imaging and energy dispersive x-ray spectroscopy. Also covers different sample preparation techniques for TEM. The goal is that the students become independent users of the TEM.

0101	Lourdes Salamanca-Riba Th 9:30am - 12:30pm	Seats (Total: 5) KEB 1237	Lab
0201	Lourdes Salamanca-Riba F 2:00pm - 5:00pm	Seats (Total: 5) KEB 1237	Lab

ENMA688 **Seminar in Materials Science and Engineering**

Credits: 1 Grading Method: Regular, Audit

Current research in materials science and engineering and related fields.

0101	John Cumings, Gottlieb Oehrlein F 1:00pm - 2:30pm	Seats (Total: 33) CHE 2108

ENMA698 **Special Problems in Materials Science and Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Individual, supervised study in materials science and engineering.

Contact department for information to register for this course.

ENMA797 **Independent Study**

Credits: 3 Grading Method: Regular, Audit

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Raymond Phaneuf	Seats (Total: 5)
	Contact instructor or department for details.	

ENMA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENMA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENMA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENME Engineering, Mechanical Fall 2015

ENME201 **Careers in Mechanical Engineering**

Credits: 1 Grading Method: Sat-Fail

The Mechanical Engineering Curriculum, Career Paths. Research areas in the Mechanical Engineering Department. The Mechanical Engineering Profession.

0101	Kenneth Kiger	Seats (Total: 65)
	Th 12:30pm - 1:30pm	EGR 1202

ENME272 **Introduction to Computer Aided Design**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100 and MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME 414 or ENME272.

Fundamentals of CAD, using solid modeling packages (Pro/E, SolidWorks, and Autodesk Inventor). Two and three dimensional drawing. Dimensioning and specifications. Introduction of CAD based analysis tools. Students will complete a design project.

0101	Guangming Zhang M 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0201	Guangming Zhang W 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0301	Guangming Zhang F 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0401	Celeste Roschuni Th 8:00am - 9:50am	Seats (Total: 42) KEB 2111	
0501	Celeste Roschuni Tu 8:00am - 9:50am	Seats (Total: 42) KEB 2111	

ENME331 **Fluid Mechanics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232 and ENES221. Also offered as: BIOE331. Credit only granted for: BIOE331 or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0101	Jelena Srebric, Sung Kim, Jean-Louis Balint, Kenneth Kiger MW 12:00pm - 12:50pm Tu 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	 Lab
0102	Jean-Louis Balint, Jelena Srebric, Sung Kim, Kenneth Kiger MW 12:00pm - 12:50pm W 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	 Lab

0103	Jelena Srebric, Sung Kim, Kenneth Kiger, Jean-Louis Balint MW 12:00pm - 12:50pm Th 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	 Lab
0104	Jelena Srebric, Jean-Louis Balint, Sung Kim, Kenneth Kiger MW 12:00pm - 12:50pm Th 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 JMP 1109	 Lab
0201	Jelena Srebric, Sung Kim, Kenneth Kiger, Jean-Louis Balint MW 11:00am - 11:50am F 1:00pm - 2:50pm	Seats (Total: 30) KEB 1110 KEB 1200	 Lab
0202	Jean-Louis Balint, Jelena Srebric, Kenneth Kiger, Sung Kim MW 11:00am - 11:50am Tu 3:00pm - 4:50pm	Seats (Total: 30) KEB 1110 ITV 1111	 Lab
0203	Jelena Srebric, Jean-Louis Balint, Kenneth Kiger, Sung Kim MW 11:00am - 11:50am W 3:00pm - 4:50pm	Seats (Total: 30) KEB 1110 KEB 1200	 Lab

ENME332 **Transfer Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am Tu 1:00pm - 2:50pm	Seats (Total: 35) EGR 1202 JMP 2202	 Lab
0102	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am W 1:00pm - 2:50pm	Seats (Total: 35) EGR 1202 JMP 1109	 Lab

0103	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am Th 1:00pm - 2:50pm	Seats (Total: 35) EGR 1202 JMP 1109	 Lab
0104	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am F 1:00pm - 2:50pm	Seats (Total: 35) EGR 1202 JMP 1109	 Lab

ENME350 **Electronics and Instrumentation I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271 and PHYS270.

Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Xinan Liu, Jungho Kim MW 8:00am - 8:50am M 1:00pm - 2:50pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0102	Jungho Kim, Xinan Liu MW 8:00am - 8:50am Th 1:00pm - 2:50pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0103	Jungho Kim, Xinan Liu MW 8:00am - 8:50am W 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0104	Xinan Liu, Jungho Kim MW 8:00am - 8:50am Tu 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0105	Xinan Liu, Jungho Kim MW 8:00am - 8:50am M 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab
0106	Xinan Liu, Jungho Kim MW 8:00am - 8:50am Th 3:20pm - 5:10pm	Seats (Total: 40) BRB 1101 EGR 3108	 Lab

ENME351 **Electronics and Instrumentation II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, ENME350, and PHYS270.

Continuation of ENME 350. Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Don DeVoe MW 10:00am - 10:50am Tu 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0102	Don DeVoe MW 10:00am - 10:50am W 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0103	Don DeVoe MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab
0104	Don DeVoe MW 10:00am - 10:50am Tu 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	 Lab

ENME361 **Vibration, Controls and Optimization I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (ENME271 or MATH206). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Siddhartha Das TuTh 9:30am - 10:45am	Seats (Total: 115) CSS 2324	

ENME371 **Product Engineering and Manufacturing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES221; and (ENME392 or STAT400). Restriction: Must be in Engineering: Mechanical program.

Business aspects of engineering product development. Relationship of design and manufacturing. Product specification. Statistical process control. Design team development. The development process.

0101	Linda Schmidt MW 11:00am - 11:50am Th 5:00pm - 6:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0102	Linda Schmidt MW 11:00am - 11:50am Th 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0103	Linda Schmidt MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0104	Linda Schmidt MW 11:00am - 11:50am Th 7:00pm - 8:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0105	Linda Schmidt MW 11:00am - 11:50am W 6:00pm - 7:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab

ENME382 **Introduction to Materials Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENMA300. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	Yifei Mo TuTh 11:00am - 12:15pm	Seats (Total: 120) CHE 2110
0201	Liangbing Hu TuTh 8:00am - 9:15am	Seats (Total: 100) CHE 2110

0301	Patrick McCluskey MWF 10:00am - 10:50am	Seats (Total: 120) CSS 2324	

ENME392 **Statistical Methods for Product and Processes Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

Delivered via ITV.

0101	Peter Chung TuTh 11:00am - 12:15pm	Seats (Total: 95) JMP 3201	
0201	Christopher Chabalko TuTh 9:30am - 10:45am	Seats (Total: 120) JMP 3201	

ENME400 **Machine Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0101	Chandrasekhar Thamire MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 35) JMP 2202 JMP 2202	 Discussion

ENME408 **Selected Topics in Engineering Design; Automotive Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components and engineering systems. Use of computers in design of multivariable systems.

0101	Leonard Hamilton MW 5:00pm - 6:15pm	Seats (Total: 35) JMP 2202

ENME423 **Modern Climate Control and Building Energy Design/Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES232. Corequisite: ENME332. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamentals and design calculations of heat and moisture transfer in buildings; evaluation of cooling, heating and power requirements of buildings; building energy consumption simulations, use of alternative energy and energy conservation measures in buildings; fundamentals of fans/pumps and air/water distribution in buildings; introduction to refrigeration and energy systems for data centers and other mission-critical facilities.

Delivered via ITV.

0101	Michael Ohadi TuTh 3:30pm - 4:45pm	Seats (Total: 35) JMP 2216

ENME426 **Production Management**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: BMGT385 or ENME426.

The basic concepts and models needed to understand and design manufacturing systems, including the history of manufacturing, performance measures, queuing systems, variability, production planning and scheduling, lean manufacturing, and pull production control.

0101	Jeffrey Herrmann MW 2:00pm - 3:15pm	Seats (Total: 49) PHY 1402

ENME430 **Fundamentals of Nuclear Reactor Engineering**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamental aspects of nuclear physics and nuclear engineering, including nuclear interactions; various types of radiation and their effects on materials and humans; and basic reactor physics topics, including simplified theory of reactor critically.

0101	Robert Sanders TuTh 2:00pm - 3:15pm	Seats (Total: 25) JMP 2121
NE01	Robert Sanders Class time/details on ELMs	Seats (Total: 5) ONLINE

ENME440 **Applied Machine Learning for Engineering and Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME392; or permission of instructor. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME440 or ENME808E. Additional information: offered jointly with ENME808E, graduate course.

Learn how to apply techniques from Artificial Intelligence and Machine Learning to solve engineering problems and design new products or systems. Design and build a personal or research project that demonstrates how computational learning algorithms can solve difficult tasks in areas you are interested in. Master how to interpret and transfer state-of-the-art techniques from computer science to practical engineering situations and make smart implementation decisions.

0101	Mark Fuge TuTh 2:00pm - 3:15pm	Seats (Total: 15) CHE 2136

ENME442 **Information Security**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have Senior standing in engineering; and permission of ENGR-Mechanical Engineering department. Also offered as: ENRE684. Credit only granted for: ENRE648J, ENME442, ENRE684, or ENPM808E.

The materials presented are divided into three major components: overview, detailed concepts and implementation techniques. The topics to be covered are: general security concerns and concepts from both a technical and management point of view, principles of security, architectures, access control and multi-level security, trojan horses, covert channels, trap doors, hardware security mechanism, security models, security kernels, formal specifications and verification, networks and distribution systems and risk analysis.

0101	Michel Cukier TuTh 9:30am - 10:45am	Seats (Total: 24) JMP 2121

ENME444 **Assistive Robotics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351. Restriction: Permission of ENGR-Mechanical Engineering department.

Fundamentals of assistive robots including: rehabilitative robotics to recover motor function from stroke, robotics for the visually impaired, prosthetics, and social robotics for cognitive impairment. Discussion of the disability and its consequences. Assistive robotic solutions with applications in mechanical design, control, and user interface behind representative robots in the respective area. The course will also introduce (1) special sensors and actuators and (2) brain-computer interfaces used in assistive robotics.

0101	Anindo Roy	Seats (Total: 30)	
	TuTh 9:30am - 10:45am	EGR 2116	

ENME454 **Vehicle Dynamics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Corequisite: ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

The fundamentals of passenger vehicle and light truck design and vehicl dynamics are covered. The engineering principles associated with acceleration, braking, handling, ride quality, aerodynamics, and tire mechanics are discussed, as well as suspension and steering design.

0101	Vincent Nguyen	Seats (Total: 60)	
	MW 3:30pm - 4:45pm	JMP 3201	

ENME462 **Vibrations, Controls, and Optimization II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME351 and ENME361.

Continuation of ENME 361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

Delivered via ITV.

0101	Monther Hasouneh	Seats (Total: 40)	
	MW 10:00am - 10:50am	JMP 3201	
	W 1:00pm - 2:50pm	KEB 2111	Discussion

0102	Monther Hasouneh MW 10:00am - 10:50am F 1:00pm - 2:50pm	Seats (Total: 40) JMP 3201 KEB 2111	Discussion
0103	Monther Hasouneh MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 40) JMP 3201 KEB 2111	Discussion
0201	Nikhil Chopra MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 30) EGR 1108 KEB 2107	Discussion
0202	Nikhil Chopra MW 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 30) EGR 1108 KEB 2107	Discussion

ENME466 **Lean Six Sigma**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENME392, BMGT230, or STAT400; or students who have taken courses with comparable content may contact the department.

This course intends to provide in-depth understanding of Lean Six Sigma and its Define - Mearsure - Analyze - Improve - Control (DMAIC) Breakthrough Improvement Strategy. The emphasis is placed on the DMAIC process which is reinforced via application of semester long corporate projects and case study analysis.

0101	David Bigio TuTh 3:30pm - 4:45pm	Seats (Total: 40) EGR 0110	

ENME467 **Engineering for Social Change**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Mechanical Engineering department; and junior standing or higher.

Critical analysis of issues at the intersection of engineering, philanthropy and social change. How engineering design, products and processes have impacted social change in the past and will do so in the future. Topics covered include energy, sustainability and climate change, autonomy, the digital future, low cost engineering, manufacturing, ethics and the impact of electronics on society. Faculty and external experts will engage with students on these topics. Students will award a significant amount of grant money to an organization involved in technology for social change

0101	Davinder Anand TuTh 9:30am - 10:45am	Seats (Total: 40) KEB 1200	

ENME470 **Finite Element Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

0101	Guangming Zhang MWF 12:00pm - 12:50pm	Seats (Total: 42) KEB 2111	
0201	Abhijit Dasgupta M 5:00pm - 6:15pm W 5:00pm - 6:15pm	Seats (Total: 42) EGR 3106 KEB 2111	
0301	Hugh Bruck Tu 4:00pm - 5:15pm Th 4:00pm - 5:15pm	Seats (Total: 40) KEB 2111 BPS 1238	

ENME472 **Integrated Product and Process Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENME371.

Integration of product development with the development process. Design strategies. Product architecture. Design for manufacturing. Selection of materials. Design for assembly.

0101	Celeste Roschuni, Ryan Sochol, Gary Pertmer, David Bigio TuTh 11:00am - 11:50am Tu 12:00pm - 1:50pm	Seats (Total: 35) EGR 1202 EGL 0101	 Lab
0102	David Bigio, Gary Pertmer, Celeste Roschuni, Ryan Sochol TuTh 11:00am - 11:50am Th 12:00pm - 1:50pm	Seats (Total: 35) EGR 1202 EGL 0101	 Lab

0103	Ryan Sochol, Celeste Roschuni, Gary Pertmer, David Bigio TuTh 11:00am - 11:50am W 4:00pm - 5:50pm	Seats (Total: 35) EGR 1202 EGL 0101	 Lab
0104	Gary Pertmer, Celeste Roschuni, Ryan Sochol, David Bigio TuTh 11:00am - 11:50am F 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 EGL 0101	 Lab
0106	Ryan Sochol, Celeste Roschuni, David Bigio, Gary Pertmer TuTh 11:00am - 11:50am Tu 2:00pm - 3:50pm	Seats (Total: 35) EGR 1202 EGL 0101	 Lab

ENME473 **Mechanical Design of Electronic Systems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Design considerations in the packaging of electronic systems. Production of circuit boards and design of electronic assemblies. Vibration, shock, fatigue and thermal considerations.

Delivered via ITV.

0101	Bongtae Han MW 2:00pm - 3:15pm	Seats (Total: 25) CSS 1113	

ENME484 **Analysis of Turbulent Flow**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME331. Restriction: Permission of ENGR-Mechanical Engineering department. Formerly: ENME484 or ENME657.

Relentless growth in the speed and size of supercomputers has encouraged the ever expanding use of numerical simulation in the practice of fluids engineering. For the flow past ground vehicles, in the urban grid, re-entering rockets, helicopters landing on ships at sea and countless other examples, the flow is turbulent, and simulation is becoming or will one day become the methodology of choice in analyzing and designing such technologies. The goal of this course is to give an introduction to the analysis of turbulent flow via simulation and the modeling that is used in its development. Among the questions to be considered: What can one hope to learn from flow simulation? What are the strengths of the approach and what obstacles inhibit its application? What kind of physical considerations are required in setting up simulations? How does one analyze the results of a simulation?

0101	Peter Bernard MW 11:00am - 12:15pm	Seats (Total: 10) EGR 2116

ENME488 **Special Problems**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Limited to mechanical engineering seniors.

Contact department for information to register for this course.

ENME489 **Special Topics in Mechanical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Contact department for information to register for this course.

ENME489A **Special Topics in Mechanical Engineering; Risk and Reliability in Health Care**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 10) JMP 2217

ENME489F **Special Topics in Mechanical Engineering; Dynamics of Atmospheric Flight**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME331.

0201	David Findlay W 3:30pm - 6:10pm	Seats (Total: 10) JMP 2120

ENME489G **Special Topics in Mechanical Engineering; Manufacturing Processes and Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisites: Permission of department.

0101	George Dieter	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	EGR 0108

ENME489J **Special Topics in Mechanical Engineering; Fatigue Life Prediction**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Contact department for information to register for this course.

ENME489L **Special Topics in Mechanical Engineering; Bio-inspired Robotics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME350.

0101	Krishnanand Kaipa Narasimha	Seats (Total: 35)
	MW 2:00pm - 3:15pm	ITV 1100

ENME489R **Special Topics in Mechanical Engineering; Fiber Optics**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Miao Yu	Seats (Total: 25)
	MW 11:00am - 12:15pm	PLS 1111

ENME489V **Special Topics in Mechanical Engineering; Mechanical Contracting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Gary Pertmer, Michael Mack Th 8:00am - 10:40am	Seats (Total: 30) PLS 1113

ENME489X **Special Topics in Mechanical Engineering; Energy Conversion Systems for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES232.

0101	Ashwani Gupta Th 4:00pm - 6:40pm	Seats (Total: 50) JMP 2121

ENME605 **Advanced Systems Control**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME462; or permission of instructor.

Modern control theory for both continuous and discrete systems. State space representation is reviewed and the concepts of controllability and observability are discussed. Design methods of deterministic observers are presented and optimal control theory is formulated. Control techniques for modifying system characteristics are discussed.

0101	Jin-Oh Hahn TuTh 2:00pm - 3:15pm	Seats (Total: 25) EGR 2116

ENME611 **Fiber Optics**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENME611,ENME808 or ENME489R. Formerly: ENME808R.

Introduces students to fiber optics, provides a background including fiber optic components and terminology, and equip students with ability to understand and evaluate various kinds of fiber optic sensors for a wide range of applications along with a detailed understanding of relevant signal processing and analysis techniques.

0101	Miao Yu MW 11:00am - 12:15pm	Seats (Total: 10) PLS 1111

ENME631 **Advanced Conduction and Radiation Heat Transfer**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME332; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Theory of conduction and radiation. Diffused and directional, poly- and mono-chromatic sources. Quantitative optics. Radiation in enclosures. Participating media. Integrodifferential equations. Multidimensional, transient and steady-state conduction. Phase change. Coordinate system transformations.

0101	Bao Yang	Seats (Total: 25)
	MW 2:00pm - 3:15pm	SPH 0305

ENME633 **Molecular Thermodynamics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Mechanical Engineering department.

An examination of the interactions between molecules, which govern thermodynamics relevant to engineering, will be conducted. We will investigate both classical and statistical approaches to thermodynamics for understanding topics such as phase change, wetting of surfaces, chemical reactions, adsorption, and electrochemical processes. Statistical approaches and molecular simulation tools will be studied to understand how molecular analysis can be translated to macroscopic phenomena.

0101	Bao Yang	Seats (Total: 25)
	MW 5:00pm - 6:15pm	EGR 1102

ENME640 **Fundamentals of Fluid Mechanics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed partial differential equations at the level of MATH 462; or permission of ENGR-Mechanical Engineering department. Formerly: ENME651.

Equations governing the conservation of mass, momentum, vorticity and energy in fluid flows. Low Reynolds number flows. Boundary layers. The equations are illustrated by analyzing a number of simple flows. Emphasis is placed on physical understanding to facilitate the study of advanced topics in fluid mechanics.

0101	Peter Bernard	Seats (Total: 30)
	MW 3:30pm - 4:45pm	CHE 2136

ENME642 **Hydrodynamics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME640; or students who have taken courses with comparable content may contact the department; or permission of instructor. Formerly: ENME653.

Exposition of classical and current methods used in analysis of inviscid, incompressible flows.

0101	James Duncan	Seats (Total: 25)
	TuTh 4:00pm - 5:15pm	MTH 0407

ENME657 **Analysis of Turbulent Flow**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME640; and (ENME641; or students who have taken courses with comparable content may contact the department). Or permission of instructor.

Mathematical representation of turbulent transport, production and dissipation. Closure schemes for predicting flows. Recent advances in direct and large eddy numerical simulation techniques.

0101	Peter Bernard	Seats (Total: 15)
	MW 11:00am - 12:15pm	EGR 2116

ENME670 **Continuum Mechanics**

Credits: 3 Grading Method: Regular, Audit

Mechanics of deformable bodies, finite deformation and strain measures, kinematics of continua and global and local balance laws. Thermodynamics of continua, first and second laws. Introduction to constitutive theory for elastic solids, viscous fluids and memory dependent materials. Examples of exact solutions for linear and hyper elastic solids and Stokesian fluids.

0101	Teng Li	Seats (Total: 25)
	MW 11:00am - 12:15pm	EGR 3106

ENME675 **A Mathematical Introduction to Robotics**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENME675 or ENME808V. Formerly: ENME808V.

Designed to provide graduate students with some of the concepts in robotics from a mathematical viewpoint, including introduction to group theory and basics of SO(3) and SE(3) group applied to robotics; rigid body motion; manipulator kinematics; introduction to holonomic & non-holonomic constraints; dynamics of robot manipulators.

0101	Jaydev Desai	Seats (Total: 20)
	MW 11:00am - 12:15pm	EGR 3102

ENME690 **Mechanical Fundamentals of Electronic Systems**

Credits: 3 Grading Method: Regular, Audit

An understanding of the fundamental mechanical principles used in desig of electronic devices and their integration into electronic systems will be provided. Focus will be placed on the effect of materials compatibility, thermal stress, mechanical stress, and environmental exposure on product performance, durability and cost. Both electronic devices and package assemblies will be considered. Analysis of package assemblies to understand thermal and mechanical stress effects will be emphasized through student projects.

0101	Bongtae Han	Seats (Total: 25)
	MW 2:00pm - 3:15pm	CSS 1113

ENME701 **Sustainable Energy Conversion and the Environment**

Credits: 3 Grading Method: Regular, Audit

Recommended: ENME633. Credit only granted for: ENME701, ENME706 or ENME808D. Formerly: ENME706 and ENME808D.

Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. Introduces a range innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy.

0101	K Radermacher	Seats (Total: 25)
	MW 3:30pm - 4:45pm	EGR 0108

ENME711 **Vibration Damping**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENME662; or students who have taken courses with comparable content may contact the department. Recommended: Completion of coursework or background in Vibrations recommended. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

This course aims at introducing the different damping models that describe the behavior of viscoelastic materials. Emphasis will be placedon m odeling the dynamics of simple structures (beams, plates & shells) with Passive Constrained Layer Damping (PCLD). Considerations will also be g iven to other types of surface treatments such as Magnetic Constrained Layer Damping (MCLD), Shunted Network Constrained Layer Damping (SNCLD),Active Constrained Layer Damping (ACLD) and Electrorheological Constrained Layer Damping (ECLD). Energy dissipation characteristics of the damp ing treatments will be presented analytically & by using the modal strain energy approach as applied to finite element models of vibrating structures.

0101	Amr Baz	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	EGR 3114

ENME725 **Probabilistic Optimization**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ENCE725. Credit only granted for: ENME725 or ENCE725.

Provide an introduction to optimization under uncertainty. Chance-constrained programming, reliability programming, value of information, two stage problems with recourse, decomposition methods, nonlinear and linear programming theory, probability theory. The objectives of this course are to provide understanding for studying problems that involve optimization under uncertainty, learn about various stochastic programming formulations (chance constrained programs, two stage methods with recourse, etc.) relevant to engineering and economic settings, present theory for solutions to such problems, and present algorithms to solve these problems.

0101	Steven Gabriel	Seats (Total: 15)
	M 2:00pm - 4:45pm	SPH 0303

ENME741 **Management Science Applications in Engineering**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: (ENCE302; or (ENME271 and ENME392)); and (MATH140 and MATH240). Or permission of instructor. Also offered as: ENCE603. Credit only granted for: ENME738, ENME741, or ENCE603. Formerly: ENME738.

The fundamentals of Management Science techniques in Project Management including: linear and integer programming, goal programming, multi-objective optimization, simulation, Analytic Hierarchy Process (AHP), deterministic and stochastic dynamic programming will be covered. Applications will be drawn from the Critical Path Method (CPM), resource management, and other areas of Project management.

0101	Steven Gabriel Tu 2:00pm - 4:30pm	Seats (Total: 15) JMP 2217

ENME770 **Life Cycle Cost and System Sustainment Analysis**

Credits: 3 Grading Method: Regular, Audit

This course melds elements of traditional engineering economics with manufacturing process and sustainment modeling, and life cycle cost management concepts to form a practical foundation for predicting the cost of products and systems. Various manufacturing cost analysis methods will be presented including: process-flow, parametric, cost of ownership, and activity based costing. The effects of learning curves, data uncertainty, test and rework processes, and defects will be considered. Aspects of system sustainment including the impact on the life cycle (and life cycle costs) of reliability, maintenance, environmental impact, and obsolscence will be treated.

0101	Peter Sandborn M 4:00pm - 6:40pm	Seats (Total: 20) JMP 2121
ER01	Peter Sandborn Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Peter Sandborn Class time/details on ELMs	Seats (Total: 5) ONLINE

ENME799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

(Perm req)

Credits: 2-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENME808B **Advanced Topics in Mechanical Engineering; Computational Methods in Science and Engineering**

Credits: 3 Grading Method: Regular, Audit

0101	Johan Larsson	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	MTH 1308

ENME808E **Advanced Topics in Mechanical Engineering; Applied Machine Learning for Engineering and Design**

Credits: 3 Grading Method: Regular, Audit

0101	Mark Fuge	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	CHE 2136

ENME898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENNU Engineering, Nuclear Fall 2015

ENNU648F **Special Problems in Nuclear Engineering; Nuclear Systems and Severe Accidents**

Credits: 3 Grading Method: Regular, Audit

NE01	Mahmoud Massoud	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

ENNU655 **Radiation Engineering**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; and permission of ENGR-Materials Science & Engineering department.

An analysis of such radiation applications as synthesizing chemicals, preserving foods, control of industrial processes, design of irradiation installations. E.G., Cobalt 60 gamma ray sources, electronuclear machine arrangement, and chemonuclear reactors.

NE01	Mohamad Al-Sheikhly Class time/details on ELMs	Seats (Total: 12) ONLINE

ENNU799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENNU898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENNU899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENPM Engineering, Professional Masters Fall 2015

ENPM600 **Probability and Stochastic Processes for Engineers**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate introduction to discrete and continuous probability.

Axioms of probability; conditional probability and Bayes' rule; random variables, probability distributions and densities; functions of random variables; definition of stochastic process; stationary processes, correlation functions, and power spectral densities; stochastic processes and linear systems; estimation and optimum filtering. Applications in communication and control systems, signal processing, and detection and estimation.

0101	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
HT01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	C Ravishankar M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM603 **Theory and Applications of Digital Signal Processing**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate introduction to discrete-time systems.

Uniform sampling and the sampling theorem; the Z-transform and discrete-time system analysis; multi-rate systems; discrete-time random processes; methods for designing FIR and IIR digital filters; effects of quantization and finite work-length; the DFT and FFT; power spectrum estimation.

0101	Emre Gunduzhan W 7:00pm - 9:40pm	Seats (Total: 25) JMP 3201
HT01	Emre Gunduzhan W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Emre Gunduzhan W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Emre Gunduzhan W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM607 **Computer System Design and Architecture**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE446; or students who have taken courses with comparable content may contact the department.

Principles of computer design and cost/performance factors; instruction set design and implementation, RISC vs. CISC instruction sets; control unit and pipeline design; floating-point arithmetic; memory hierarchy designs, caches, memory interleaving, virtual memory; I/O device interconnections to CPUs and main memory. Additional topics include parallel system designs, SIMD, MIMD, SPMD; interconnection networks for processors and memories; optimization of pipeline operations; superscalar architectures, power management techniques.

0101	Ankur Srivastava W 4:00pm - 6:40pm	Seats (Total: 25) JMP 2216
HT01	Ankur Srivastava W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

SG01	Ankur Srivastava W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Ankur Srivastava W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM611 **Software Engineering**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Competency in one programming language; and must have completed an undergraduate software engineering course. Or permission of instructor. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education. Credit only granted for: ENPM611 or ENPM808G. Formerly: ENPM808G.

Software engineering concepts, methods, and practices important to both the theorist and the practitioner will be covered. The entire range of responsibilities expected of a software engineer are presented. The fundamental areas of requirements development, software design, programming languages, and testing are covered extensively. Sessions on supporting areas such as systems engineering, project management, and software estimation are also included.

0101	Christopher Ackermann Tu 7:00pm - 9:40pm	Seats (Total: 25) JMP 2121
HT01	Christopher Ackermann Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Christopher Ackermann Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Christopher Ackermann Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM613 **Software Design & Implementation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM611. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education. Credit only granted for: ENPM608 or ENPM613. Formerly: ENPM608.

Software design concepts and practices within the field important to both the practitioner and the theorist will be covered. Architectural and detailed designs are included for batch, client/server, and real-time systems. Design considerations for structured, object-oriented, and Web-based systems are covered. Design of databases, user interfaces, forms, and reports are also included. Implementation issues that affect the design, including error handling, performance, and inter-process communication, are presented.

0101	Arnab Ray Th 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
HT01	Arnab Ray Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Arnab Ray Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Arnab Ray Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM620 **Computer Aided Engineering Analysis**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education.

Computer assisted approach to the solution of engineering problems. Review and extension of undergraduate material in applied mathematics including linear algebra, vector calculus, differential equations, and probability and statistics.

A laptop or Tablet PC is required for in-class use.

0101	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 17) JMP 2121
HT01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
ME01	Gilad Sharon Class time/details on ELMs	Seats (Total: 25) ONLINE
SG01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SM01	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM622 **Energy Conversion I - Stationary Power**

Credits: 3 Grading Method: Regular, Audit

Thermal engineering of modern power generation systems. Cycle analysis of various modern power generation technologies including gas turbine, combined cycle, waste burning and cogeneration. Energy storage and energy transport.

0101	Patrick Caton W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
HT01	Patrick Caton W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
ME01	Patrick Caton Class time/details on ELMs	Seats (Total: 15) ONLINE
SG01	Patrick Caton W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Patrick Caton W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM624 **Renewable Energy Applications**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education.

Thermodynamics and heat transfer of renewable energy sources for heating, power generation and transportation. Wind energy, solar thermal, photovoltaic, biomass, waste burning, and hydropower. Broad overview of the growing use of renewable energy sources in the world economy with detailed analysis of specific applications.

0101	Zachary Dunbar Tu 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
HT01	Zachary Dunbar Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ME01	Zachary Dunbar Class time/details on ELMs	Seats (Total: 25) ONLINE
SG01	Zachary Dunbar Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Zachary Dunbar Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM625 **Heating, Ventilation and Air Conditioning of Buildings**

Credits: 3 Grading Method: Regular, Audit

Low pressure side of buildings heating and cooling systems. Thermodynamics, heat transfer and digital control principles applied to field problems. Quantitative analyses stressed. Topics include psychometrics, thermal loads, incompressible flow in ducts and pipes, heat exchangers, cooling towers, PID control systems.

0101	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 25) JMP 2121
HT01	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Karim Amrane Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM641 **Systems Concepts, Issues, and Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE621. Credit only granted for: ENPM641 or ENSE621.

An introduction to the professional and academic aspects of systems engineering. Topics include: systems engineering activities, opportunities and drivers; case studies of systems failures; models of system lifecycle development; introduction to model-based systems engineering; representations for system structure, system behavior, system interfaces and systems intergration; reactive (even-driven) systems, systems-of-systems, measures of system complexity; visual modeling of engineering systems with UML and SysML; simplified procedures for engineering optimization and tradeoff analysis. Software tools for visual modeling of systems with UML and SysML. Students will complete a project for the front-end development of an engineering system using ULM/SysML.

0101	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 41) JMP 2222
HT01	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM643 **Systems Projects, Validation and Verification**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENSE622 or ENPM642; and permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE623. Credit only granted for: ENPM642 or ENSE623.

This course builds on material covered in ENSE621/ENPM641 and ENSE622/ENPM642. Topics wil cover established and emerging approaches to system validation and verification including; inspection, testing, and traceability; writing validation and verification plans; formal approaches to sytem validation and verification; specification-based testing; role of logic in system validation and verification; automation models of computation, timed automation; model-based design and model checking for reactive systems. Students will be introduced to software tools for specification-based testing, model-based testing, model-based design and model checking. Students will work in teams on semester-long projects in systems engineering design and formal approaches to system validation and verification.

0101	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 30) JMP 2222
HT01	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SG01	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM646 **System Life Cycle Cost Analysis and Risk Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE626. Credit only granted for: ENPM646 or ENSE626.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Relevant analytic tools from probability and statistics and important managerial and organizational concepts. Extensive use is made of case studies from industry andgovernment.

Also offered as ENSE626.

0101	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2222
HT01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM660 **Wind Energy Engineering**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENPM808Q or ENPM660. Formerly: ENPM808Q.

An examination of four central topics in wind energy engineering: the nature of wind energy as a resource for generating electricity; the aerodynamics of wind turbines by which the wind energy is converted into mechanical energy; the mechanics and dynamics of the wind energy system (tower, rotor, hub, drive train, and generator); and the electrical aspects of wind turbines. Additional topics to be included in the course include:Wind turbine design; wind turbine control; wind turbine siting, system design, and integration; Wind energy system economics; and wind energy systems environmental impacts and aspects. The course is intended to pass along substantial subject matter knowledge and skills, it can only be treated as an introduction to this extensive, multidisciplinary topic. However, students are expected to emerge with a substantial knowledge of wind energy systems and the methods used to analyze such systems.

0101	Norman Eisenberg W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2216
HT01	Norman Eisenberg W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
ME01	Norman Eisenberg Class time/details on ELMs	Seats (Total: 25) ONLINE
SG01	Norman Eisenberg W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Norman Eisenberg W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM672 **Fundamentals for Thermal Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Undergraduate engineering, physics or chemistry degree. Restriction: Permission of ENGR-Office of Advanced Engineering Education. Credit only granted for: ENPM672 or ENPM808J. Formerly: ENPM808J.

Included in this course is an introduction to thermodynamics, fluid mechanics and heat transfer. Emphasis is on gaining an understanding of the physical concepts through the solving of numerical problems associated with simple thermal fluid processes and cycles. Both ideal gases and multiphase fluids will be considered as the working fluids.

ME01	Kristen Hines Class time/details on ELMs	Seats (Total: 25) ONLINE

ENPM683 **Chemistry of Energetic Materials**

Credits: 3

Grading Method: Regular, Audit

Recommended: Background in general chemistry is strongly desired. Credit only granted for: ENPM683 or ENPM808Q. Formerly: ENPM808Q.

An introduction to the chemistry of energetic materials (explosives, propellants, and pyrotechnics), organized by traditional functional groups. Primary and secondary explosives, including the properities and syntheses of nitrate esters, nitramines, and nitro compounds, as well as other energetic compunds will be discussed. Other topics discussed are: crystallization, polymorphism, sensitivity, and various explosive and propellant compositions.

PE01	Ruth Doherty	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENPM684 **Rocket Propulsion**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENPM808X or ENPM 684. Formerly: ENPM808X.

Review of basic rocket propulsion principles including performance, design, analysis, nozzle theory, and thermodynamic relationships. Students will conduct performance analyses of solid, liquid, and hybrid rocket motors. Design projects will be focused to allow students to develop a basic understanding for the challenges associated with the design of chemical rocket engines/motors. We will examine the classification of solid and liquid propellants/fuels/oxidizers and their combustion characteristics.

PE01	Forrest Svingala	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENPM691 **Programming in C for Cybersecurity Applications**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENEE150; or students who have taken courses with comparable content may contact the department. Credit only granted for: ENPM808M or ENPM 691. Formerly: ENPM808M.

Teaches the fundamentals of secure programming in C. An in depth discussion on various security vulnerabilities (e.g., buffer overflows) in C applications will be taught with hands-on demo of concepts during the class. Students will learn how a C program runs "under-the-hood". The course will teach nitty-gritty of C programs by analyzing at the assembly level. The course discusses best practices (e.g., coding standards) and design principles for secure programming so that security can be built-in during design time. In addition to assignments, students are required to present papers related to this course.

0101	Dharmalingam Ganesan Tu 7:00pm - 9:40pm	Seats (Total: 20) JMP 3201
CY01	Dharmalingam Ganesan Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Dharmalingam Ganesan Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Dharmalingam Ganesan Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Dharmalingam Ganesan Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM693 **Network Security**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: An operating systems and/or network protocol course or equivalent. Formerly: ENPM808N.

Introduction to various approaches to design; specify and verify security protocols used in large systems and networks; familiarization with some current technologies. Security threats and countermeasures, communication security and basic encryption techniques, authentication protocols, data confidentiality and integrity, analysis of cryptographic protocols, and access control in large systems and networks.

0101	Seyed Bahari Th 7:00pm - 9:40pm	Seats (Total: 20) JMP 2216
CY01	Seyed Bahari Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Seyed Bahari Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Seyed Bahari Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Seyed Bahari Th 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808 **Advanced Topics in Engineering**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	George Syrmos Contact instructor or department for details.	Seats (Total: 10)

ENPM808A **Advanced Topics in Engineering; Networks and Protocols**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Sohraab Soltani M 7:00pm - 9:40pm	Seats (Total: 20) JMP 3201
CY01	Sohraab Soltani Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Sohraab Soltani M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Sohraab Soltani M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Sohraab Soltani M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808B **Advanced Topics in Engineering; Advanced Mobile Broadband Communications Systems and Standards**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Kamran Etemad M 4:00pm - 6:40pm	Seats (Total: 25) Location: TBA

HT01	Kamran Etemad M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SG01	Kamran Etemad M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Kamran Etemad M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808D **Advanced Topics in Engineering; Network System Design**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Ali Namazi M 7:00pm - 9:40pm	Seats (Total: 25) JMP 2216
HT01	Ali Namazi M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Ali Namazi M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Ali Namazi M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808F **Advanced Topics in Engineering; Reverse Software Engineering**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

CY01	Instructor: TBA	Seats (Total: 20)

ENPM808K **Advanced Topics in Engineering; Secure Software Testing and Construction**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Dharmalingam Ganesan W 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
CY01	Dharmalingam Ganesan Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Dharmalingam Ganesan W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Dharmalingam Ganesan W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Dharmalingam Ganesan W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM808M **Advanced Topics in Engineering; Introduction to Robot Modeling**

Credits: 3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	William Levine W 4:00pm - 6:40pm	Seats (Total: 25) JMP 2217
HT01	William Levine W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
OF01	Instructor: TBA	Seats (Total: 5)
SG01	William Levine W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	William Levine W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808Q **Advanced Topics in Engineering; Control of Robotic Systems**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

0101	Nuno Martins M 4:00pm - 6:40pm	Seats (Total: 25) JMP 2217
HT01	Nuno Martins M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SG01	Nuno Martins M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Nuno Martins M 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808X **Advanced Topics in Engineering; Nuclear Reactor Dynamics and Control**

Credits: 3

Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professiona master of engineering program. May be taken for repeated credit when identified by topic title.

NE01	James Turso Class time/details on ELMs	Seats (Total: 25) ONLINE

ENPP Engineering and Public Policy Fall 2015

ENPP611 **MEPP Scholarly Practicum**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must have Practicum Proposal approved by MEPP.

The scholarly practicum internship for MEPP students is intended to educate students in how engineering and public policy is practised in their MEPP specialization. The internship must last a minimum of 400 hours, and must be completed by the submission and approval of progress and completion reports. By undertaking the internship midway through the student's MEPP studies, the student can make use of MEPP studies completed, and use the experience in selection of subsequent MEPP course to maximize the educational opportunities of the MEPP program.

0101	William Powers Contact instructor or department for details.	Seats (Total: 8)

ENRE Reliability Engineering Fall 2015

ENRE489 **Special Topics in Reliability Engineering**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in reliability engineering.

Contact department for information to register for this course.

ENRE600 **Fundamentals of Failure Mechanisms**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ENMA698M, ENNU648M, or ENRE600.

Physical, chemical, and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real devices will also be presented. Problems related to manufacturing, and achieving quality and reliability will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory. The mathematical and statistical basis for analysis is presented as well as Failure Mode and Failure Anaylsis.

Those sections that begin with a letter are taught via ITV and are not i ntended for College Park campus students.

0101	Aristos Christou M 1:00pm - 3:40pm	Seats (Total: 20) JMP 2217
ER01	Aristos Christou Class time/details on ELMs	Seats (Total: 20) ONLINE
RE01	Aristos Christou Contact instructor or department for details.	Seats (Total: 4)
SM01	Aristos Christou Contact instructor or department for details.	Seats (Total: 5)

ENRE602 **Reliability Analysis**

Credits: 3

Grading Method: Regular, Audit

Principal methods of reliability analysis, including fault tree and reliability block diagrams; Failure Mode and Effects Analysis (FMEA); event tree construction and evaluation; reliability data collection and analysis; methods of modeling systems for reliability analysis. Focus on problems related to process industries, fossil-fueled power plant availability, and other systems of concern to engineers.

Those sections that begin with a letter are taught via ITV and are not i ntended for College Park campus students.

0101	Enrique Droguett Th 3:00pm - 5:40pm	Seats (Total: 20) JMP 2222
ER01	Enrique Droguett Class time/details on ELMs	Seats (Total: 20) ONLINE
HT01	Enrique Droguett Th 3:00pm - 5:40pm	Seats (Total: 5) Location: TBA
RE01	Enrique Droguett Th 3:00pm - 5:40pm	Seats (Total: 10) Location: TBA
SG01	Enrique Droguett Th 3:00pm - 5:40pm	Seats (Total: 5) Location: TBA
SM01	Enrique Droguett Th 3:00pm - 5:40pm	Seats (Total: 5) Location: TBA

ENRE641 **Probabilistic Physics of Failure and Accelerated Testing**

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: ENRE641 or ENRE650. Formerly: ENRE650.

Models for life testing at constant stress. Graphical and analytical methods. Test plans for accelerated testing. Competing failure modes and size effects. Models and data analyses for step and time varying stresses. Optimizing of test plans.

0101	Mohammad Modarres Tu 1:00pm - 3:40pm	Seats (Total: 25) JMP 2222
ER01	Mohammad Modarres Tu 1:00pm - 3:40pm	Seats (Total: 15) ONLINE

HT01	Mohammad Modarres Tu 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA
RE01	Mohammad Modarres Tu 1:00pm - 3:40pm	Seats (Total: 15) ONLINE
SG01	Mohammad Modarres Tu 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA
SM01	Mohammad Modarres Tu 1:00pm - 3:40pm	Seats (Total: 5) Location: TBA

ENRE648 **Special Problems in Reliability Engineering**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE648B **Special Problems in Reliability Engineering; Life Cycle Cost and System Sustainment Analysis**

Credits: 3 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

0101	Peter Sandborn M 4:00pm - 6:40pm	Seats (Total: 20) JMP 2121
ER01	Peter Sandborn Class time/details on ELMs	Seats (Total: 10) ONLINE
RE01	Peter Sandborn Class time/details on ELMs	Seats (Total: 5) ONLINE

ENRE648C **Special Problems in Reliability Engineering; Risk and Reliability in Health Care**

Credits: 3 Grading Method: Regular, Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

0101	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 10) JMP 2217
ER01	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 10) ONLINE
RE01	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 10) ONLINE

ENRE655 **Advanced Methods in Reliability Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Credit only granted for: ENRE655 or ENRE665. Formerly: ENRE665.

Bayesian methods and applications, estimation of rare event frequencies uncertainty analysis and propagation methods, reliability analysis of dynamic systems, analysis of dependent failures, reliability of repairable systems, human reliability analysis methods and theory of logic diagrams and application to systems reliability.

Contact department for information to register for this course.

ENRE670 **Probabilistic Risk Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENRE602. Also offered as: ENNU651. Credit only granted for: ENNU651 or ENRE670.

Why study risk, sources of risk, overview of Risk Assessment and Risk Management, relation to System Safety and Reliability Engineering; measures, representation, communication, and perception of risk; overview of use of risk assessment results in decision making; overview of Probabilistic Risk Assessment (PRA) process; detailed converge of PRA methods including (1) methods for risk scenario development such as identification of initiators, event sequence diagrams, event trees, causal modeling (fault trees, influence diagrams, and hybrid methods), and simulation approaches; (2) methods of risk scenario likelihood assessment, including quantitative and qualitative approaches, as well as uncertainty modeling and analysis. Also covers methods for risk modeling of system hardware behavior, physical phenomena, human behavior, software behavior, organizational environment, and external physical environment. Additional core topics include risk model integration and quantification (Boolean-based, binary decsion diagram, Bayesian belief networks, and hybrid methods), simulation-based Dynamic PRA methods (discrete and continuous) and several examples of large scale PRAs for space missions, nuclear power, aviation and medical systems.

0101	Clayton Smith W 1:00pm - 3:40pm	Seats (Total: 17) JMP 2217
ER01	Clayton Smith W 1:00pm - 3:40pm	Seats (Total: 10) ONLINE
RE01	Clayton Smith W 1:00pm - 3:40pm	Seats (Total: 10) ONLINE

ENRE684 **Information Security**

Credits: 3 Grading Method: Regular, Audit

Also offered as: ENME442. Credit only granted for: ENME442, ENRE648J, or ENRE684. Formerly: ENRE648J.

This course is divided into three major components: overview, detailed concepts and implementation techniques. The topics to be covered are: general security concerns and concepts from both a technical and management point of view, principles of security, architectures, access control and multi-level security, trojan horses, covert channels, trap doors, hardware security mechanism, security models, security kernels, formal specifications and verification, networks and distribution systems and risk analysis.

0101	Michel Cukier TuTh 9:30am - 10:45am	Seats (Total: 5) JMP 2121
ER01	Michel Cukier Contact instructor or department for details.	Seats (Total: 10)
RE01	Michel Cukier Contact instructor or department for details.	Seats (Total: 5)

ENRE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENSE Systems Engineering Fall 2015

ENSE621 **Systems Concepts, Issues, and Processes**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM641. Credit only granted for: ENPM641 or ENSE621.

An introduction to the professional and academic aspects of systems engineering. Topics include: systems engineering activities, opportunities and drivers; case studies of systems failures; models of system lifecycle development; introduction to model-based systems engineering; representations for system structure, system behavior, system interfaces and systems intergration; reactive (even-driven) systems, systems-of-systems, measures of system complexity; visual modeling of engineering systems with UML and SysML; simplified procedures for engineering optimization and tradeoff analysis. Software tools for visual modeling of systems with UML and SysML. Students will complete a project for the front-end development of an engineering system using ULM/SysML.

0101	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 41) JMP 2222
HT01	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Kent de Jong M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENSE623 **Systems Projects, Validation and Verification**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENSE622 and ENPM642; and permission of ENGR-Institute for Systems Research. Also offered as: ENPM643. Credit only granted for: ENPM643, ENSE610, or ENSE623.

This course builds on material covered in ENSE621/ENPM641 and ENSE622/ENPM642. Topics wil cover established and emerging approaches to system validation and verification including; inspection, testing, and traceability; writing validation and verification plans; formal approaches to sytem validation and verification; specification-based testing; role of logic in system validation and verification; automation models of computation, timed automation; model-based design and model checking for reactive systems. Students will be introduced to software tools for specification-based testing, model-based testing, model-based design and model checking. Students will work in teams on semester-long projects in systems engineering design and formal approaches to system validation and verification.

0101	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 30) JMP 2222
HT01	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	John MacCarthy Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENSE626 **System Life Cycle Analysis and Risk Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM646.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Also covered, are relevant analytic tools from probability and statistics and also important managerial and organizational concepts. Extensive use is made of case studies and examples from industry and government.

0101	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2222
HT01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Nidak Sumrean W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

SM01	Nidak Sumrean	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA

ENSE698E **Special Topics in Systems Engineering; Sensor Systems**

Credits: 3 Grading Method: Regular, Audit

Also offered as ENCE688D.

0101	David Lovell, Pamela Abshire	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	EGR 3102

ENSE698J **Special Topics in Systems Engineering; Federal Acquisition: Concept and Management**

Credits: 3 Grading Method: Regular, Audit

Also offered as BUSI758A and PUAF689A.

0101	William Lucyshyn	Seats (Total: 22)
	W 4:15pm - 6:45pm	Location: TBA

ENSE699 **Directed Study in Systems Engineering**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact department for information to register for this course.

ENSP Environmental Science and Policy Fall 2015

ENSP101 **Introduction to Environmental Science**

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS

One of two required courses that introduce students to the topics studied and methods employed in environmental science and policy. Emphasis on scientific ways of knowing; the systems, cycles, flows, and interfaces that characterize the atmosphere, lithosphere, hydrosphere, and biosphere; the analysis of human impacts on these systems; and the nature of scientific uncertainty and methods of quantifying environmental processes.

0101	Gregory Schnaar MWF 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 25) JMZ 0220 HBK 1112	Discussion
0102	Gregory Schnaar MWF 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) JMZ 0220 PLS 1146	Discussion
0103	Gregory Schnaar MWF 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 24) JMZ 0220 SYM 0215	Discussion
0104	Gregory Schnaar MWF 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 24) JMZ 0220 PLS 1119	Discussion
0105	Gregory Schnaar MWF 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 25) JMZ 0220 EGR 1102	Discussion
0106	Gregory Schnaar MWF 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 24) JMZ 0220 WDS 1130	Discussion
0107	Gregory Schnaar MWF 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 24) JMZ 0220 ITV 1111	Discussion

ENSP330 **Introduction to Environmental Law**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of AGNR-Dean-Environmental Science & Policy Program. Recommended: ENSP101; and ENSP102. Restriction: Junior standing or higher. Credit only granted for: ENSP330 or ENSP399A. Formerly: ENSP399A.

An overview of environmental law, from its common law roots to its role in the modern regulatory state, including an examination of major federal environment statutes and the policy debates inherent in them. Other areas covered include civil and criminal enforcement, standing to sue, land use control, and regulatory takings.

0101	Joanna Goger	Seats (Total: 30)
	TuTh 9:30am - 10:45am	EGR 2154

ENSP340 **Water: Science, Ethics and Law**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of AGNR-Dean-Environmental Science & Policy Program. Recommended: ENSP102 and ENSP101. Credit only granted for: ENSP340 or ENSP399B. Formerly: ENSP399B.

Exploration of legal, policy, ethical, and scientific apsects of water resource protection and management. Focus on water pollution, water availability, ecosystems, and sustainability.

0101	Gregory Schnaar	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMP 2202

ENSP386 **Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular

Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.

Contact department for information to register for this course.

ENSP399 **Special Topics in Environmental Science and Policy**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

Contact department for information to register for this course.

ENSP399R **Special Topics in Environmental Science and Policy; Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

1001	Jennifer Murrow	Seats (Total: 10)
	Contact instructor or department for details.	

ENSP400 **Capstone in Environmental Science and Policy**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: ENSP101; and ENSP102. Restriction: Senior standing; or permission of the Director of ENSP. And must be in Environmental Science and Policy program.

Integration of physical, biological, and social sciences with applications to environmental science and policy. Problem-solving and multi-disciplinary case study evaluations pertinent to contemporary and future issues related to the environment.

0101	Joanna Goger	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	TYD 1108

ENSP499 **Honors Thesis Research**

Credits: 1-6 Grading Method: Regular

Individual research, thesis, and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

ENST Environmental Science and Technology Fall 2015

ENST200 **Fundamentals of Soil Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Corequisite: CHEM131 and CHEM132; or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST200 or NRSC200. Formerly: NRSC200.

Study and management of soils as natural bodies, media for plant growth and ecosystem components. Morphology, composition, formation, and conservation of soils. Chemical, biological, and physical properties are discussed in relation to the production of plants, the functioning of hydrologic and nutrient cycles, the protection of environmental quality, and engineering uses of soils.

0101	Raymond Weil	Seats (Total: 24)	
	TuTh 3:30pm - 4:45pm	HJP 0226	
	Tu 5:00pm - 7:50pm	HJP 0210	Lab

0102	Raymond Weil TuTh 3:30pm - 4:45pm W 5:00pm - 7:50pm	Seats (Total: 24) HJP 0226 HJP 0210	 Lab
0103	Raymond Weil TuTh 3:30pm - 4:45pm Th 5:00pm - 7:50pm	Seats (Total: 24) HJP 0226 HJP 0210	 Lab
0104	Raymond Weil TuTh 3:30pm - 4:45pm Tu 9:30am - 12:20pm	Seats (Total: 24) HJP 0226 HJP 0210	 Lab
0105	Raymond Weil TuTh 3:30pm - 4:45pm W 9:00am - 11:50am	Seats (Total: 24) HJP 0226 HJP 0210	 Lab
0106	Raymond Weil TuTh 3:30pm - 4:45pm Th 9:30am - 12:20pm	Seats (Total: 24) HJP 0226 HJP 0210	 Lab

ENST214 **Introduction to Fish and Wildlife Sciences**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE

Prerequisite: 1 course in BSCI; or permission of instructor.

Lectures, discussion, and readings in social, biological, and human dimension issues facing fisheries and wildlife biologists and natural resource managers in the United States. Coverage will include history and philosophical discussions of fish and wildlife sciences; conservation and management; principles of community, habitat, and animal ecology and management; and interrelations of wildlife, fish, and forestry.

0101	Reginal Harrell TuTh 12:30pm - 1:45pm	Seats (Total: 36) ANS 0412

ENST233 **Introduction to Environmental Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS

How humans are affected by the quality of our air, water, soil, and foo supply as well as how human activities altered these survival necessities are examined. Students will learn how the evolution and prosperity of human populations have resulted in degradation of our environment and the impact of environmental degradation on the health of people.

0101	Lance Yonkos TuTh 9:30am - 10:45am W 1:00pm - 1:50pm	Seats (Total: 40) ANS 0408 ANS 0422	 Discussion
0102	Lance Yonkos TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 40) ANS 0408 ANS 0422	 Discussion

ENST281 **Computer Aided Design in Ecology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Environmental Sci & Tech program.

Basics of Computer Aided Drawing (CAD) applied to design of constructed ecosystems. Introduction to dynamic ecosystem modeling with iconographic simulation software. Course will spend 6 weeks on CAD and 8 weeks on modeling. Use of campus stormwater wetland as case study.

0101	Jose-Luis Izursa, David Tilley M 10:00am - 10:50am M 11:00am - 3:00pm	Seats (Total: 20) ANS 0422 ANS 0509	 Lab
0102	David Tilley, Jose-Luis Izursa M 10:00am - 10:50am W 8:00am - 12:00pm	Seats (Total: 20) ANS 0422 ANS 0509	 Lab

ENST301 **Field Soil Morphology I**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is a field-oriented course that introduces students to the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Martin Rabenhorst	Seats (Total: 7)
	Contact instructor or department for details.	

ENST302 **Field Soil Morphology II**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST301. Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is the second field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Martin Rabenhorst	Seats (Total: 7)
	Contact instructor or department for details.	

ENST303 **Field Soil Morphology III**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST302. Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.

This is the third field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.

0101	Martin Rabenhorst	Seats (Total: 15)
	Contact instructor or department for details.	

ENST333 **Ecosystem Health and Protection**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST233. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech). Credit only granted for: ENST499A or ENST333. Formerly: ENST499A.

Discussion of the philosophies, principles, and practices for assessing ecosystem health with emphasis on an ecosystem perspective rather than a human health perspective. Degradation associated with human activities will be emphasized. Topics will range from local to regional to global issues, including a discussion on global warming and its possible impacts on ecosystems. Concepts will be clarified using case histories from the Chesapeake Bay watershed.

0101	Daniel Fisher	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	ANS 0422

ENST360 **Ecosystem Ecology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI106. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech).

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

0101	Peter May	Seats (Total: 20)	
	M 2:00pm - 2:50pm	ANS 0422	
	W 12:00pm - 3:50pm	ANS 0538	Lab
	M 3:00pm - 3:50pm	ANS 0422	Discussion

0102	Peter May	Seats (Total: 20)	
	M 2:00pm - 2:50pm	ANS 0422	
	W 8:00am - 12:00pm	ANS 0538	Lab
	M 3:00pm - 3:50pm	ANS 0422	Discussion

ENST373 **Natural History of the Chesapeake Bay**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: BSCI373. Credit only granted for: BSCI373, ENST373, or ENST499G. Formerly: ENST499G.

Consideration of the major groups of organisms associated with the Chesapeake Bay and current issues that determine humans' present and future uses for the Chesapeake and its biota.

0101	Patrick Kangas	Seats (Total: 80)
	MWF 3:00pm - 3:50pm	ANS 0408

ENST389 **Internship**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students place in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

0101	Patrick Kangas	Seats (Total: 50)
	Contact instructor or department for details.	

ENST410 **Ecosystem Services: An Integrated Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI361; or permission of instructor.

The importance of our ecosystems and the services they provide will be discussed. Basic principles used to analyze ecosystem services will be discussed and applied using case studies & field exercises. Forestland, wetlands and our marine resources are increasingly recognized for their ecosystem services provided to society, to include clean air and water, wildlife habitat, biodiversity, carbon storage and pollination services. This course will prepare students to deal with the complex issues involved in understanding those and other ecosystem services and their importance to society and environmental sustainability. Slowly, new markets are emerging for these services. Students will analyze the ecological, policy and financial dimensions of enhancing, restoring, and sustaining ecosystem services. New and on-going government programs and private business ventures will be discussed.

0101	Robert Tjaden	Seats (Total: 39)
	TuTh 12:30pm - 1:45pm	ANS 0422

ENST411 **Principles of Soil Fertility**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Also offered as: ENST611. Credit only granted for: ENST411 or NRSC411. Formerly: NRSC411.

Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.

0101	Raymond Weil	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	ANS 1422

ENST414 **Soil Morphology, Genesis and Classification**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200. Credit only granted for: ENST414 or NRSC414. Formerly: NRSC414.

Processes and factors of soil genesis. Taxonomy of soils of the world by U.S. System. Soil morphological characteristics, composition, classification, survey and field trips to examine and describe soils.

0101	Brian Needelman	Seats (Total: 20)	
	MWF 10:00am - 10:50am	PLS 1158	
	M 2:00pm - 5:00pm	HJP 0210	Lab

ENST415 **Renewable Energy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, PHYS121, and MATH113; or permission of AGNR-Environmental Science & Technology department. Restriction: Must be in a major within AGNR-Environmental Science & Technology department.

An overview of renewable energy technologies and their current applications. Emphasis will be placed on technological readiness, efficiency and sustainability of renewable energy alternatives. Technologies include solar thermal, photovoltaics, biodiesel, ethanol, anaerobic digestion, wind, hydroelectric, and microbial fuel cells.

0101	Stephanie Lansing	Seats (Total: 40)
	MWF 11:00am - 11:50am	ANS 0422

ENST417 **Soil Hydrology and Physics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; and (MATH113 or MATH115). Or permission of instructor. Credit only granted for: ENST417 or NRSC417. Formerly: NRSC417.

A study of soil water interactions: the hydrologic cycle; the unique properties of water and soil; the soil components and their interactions; the field water cycle; transport processes involving water, heat and solutes; human effects on soil and groundwater; as well as the measurement, prediction, and control of the physical processes taking place in and through the soil.

0101	Robert Hill	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	HBK 1112

ENST422 **Soil Microbial Ecology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST200; or 1 course in BCHM; or must have completed a course in microbiology; or students who have taken courses with comparable content may contact the department. Also offered as: ENST622. Credit only granted for: ENST422 or NRSC422. Formerly: NRSC422.

The interdisciplinary study of soil microorganisms and their interactions with the mineral matrix; resulting in processes such as nutrient cycling, decontamination, and natural product production. We will focus on the diversity of soil communities, their survival strategies, and the new strategies used to study these communities.

0101	Stephanie Yarwood	Seats (Total: 25)
	TuTh 9:30am - 10:45am	HBK 0115

ENST434 **Toxic Contaminants: Sources, Fate, and Effects**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENST333 and ENST334.

Study of the release to the environment, transport through natural compartments, persistence and ultimate fate of various classes of contaminants produced as a result of human activities. Topics will culminate in discussions of impacts to wildlife and human health. Students should emerge with a practical appreciation of the actual risks from exposure to a variety of environmental contaminants and an understanding of the environmental and human health implications of continuing the contaminating activities.

0101	Lance Yonkos M 4:00pm - 6:45pm	Seats (Total: 25) ANS 0422

ENST460 **Principles of Wildlife Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed two semesters of biology laboratory; or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST460 or NRMT460. Formerly: NRMT460.

Ecological principles and requirements of wildlife as basis for management, and introduction to the scientific literature. Conflicts in wildlife management, government administration of wildlife resources, legislation, and history of the wildlife management profession.

0101	Jennifer Murrow TuTh 11:00am - 12:15pm	Seats (Total: 40) HBK 0109

ENST461 **Urban Wildlife Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENST461 or NRMT461. Formerly: NRMT461.

Ecology and management of wildlife in urban areas. For students in biological sciences, geography, landscape design, natural resources management, recreation and urban studies. Planning, design, and wildlife conservation in landscape ecology. Public attitudes, preferences, and values, review of private conservation organizations.

One Saturday field trip is scheduled.

0101	Jennifer Murrow	Seats (Total: 40)
	TuTh 9:30am - 10:45am	ANS 0412

ENST471 **Capstone I**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

This course will be conducted in a group discussion format that will focus on professional project proposal preparation and presentation, critical evaluation of environmental science research, professional development, and career planning. Students will develop and present original project proposals and critique project proposals presented by others.

0101	Michael Kearney	Seats (Total: 90)
	M 12:00pm - 1:50pm	ANS 0408

ENST489 **Field Experience**

(Perm req)

Credits: 1-4

Grading Method: Regular, Pass-Fail, Audit

Planned field experience for both major and non-major students.

Contact department for information to register for this course.

ENST489L **Field Experience; Coasts at Risk in the 21st Century**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Planned field experience for both major and non-major students.

Worldwide some of teh most important coastal types are either disappearing or in danger of being irremediably damaged. The course will examine these coasts - from barrier islands and sandy beaches to large deltas supporting numerous people, important commercial and endangered species-and discuss teh reasons for disappearance and/or damage and what conservation/restoration strategies are available for preserving and sustaining what it left.

0101	Michael Kearney	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ANS 0422

ENST489Z **Field Experience; Water Management in Urban Environment**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Planned field experience for both major and non-major students.

Relevant processes in pathways and fluxes of water in urban areas. Urban water balance and consequences of urbanization on surface and groundwater regimes. Effects of climate and hydrology. Quantity and quality of urban runoff, sources of pollution and behavior of contaminants. Ecological quality and processes associated with urban water. Design and planning for water quality and quantity management in urban water systems. Exploring engineered, and ecologically engineered alternatives for stormwater management.

0101	Masoud Negahban-Azar	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	ANS 0422

ENST499 **Special Topics in Environmental Science and Technology**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST499X **Special Topics in Environmental Science and Technology; Soil Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to regsiter for this course.

0101	Raymond Weil	Seats (Total: 2)
	Contact instructor or department for details.	

ENST499Y **Special Topics in Environmental Science and Technology; College Teaching**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0101	Raymond Weil	Seats (Total: 2)
	Contact instructor or department for details.	

ENST602 **Research Principles and Methodology in Environmental Scienceand Technolgy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Environmental Sci & Tech program.

Fundamental research strategies and methods of investigation in Environmental Science and Technology including field and laboratory procedures.

0101	Reginal Harrell	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	ANS 1420

ENST608 **Research Methods**

(Perm req)

Credits: 1-4

Grading Method: Regular, Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST611 **Advanced Principles of Soil Fertility**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Also offered as: ENST411. Credit only granted for: ENST411, NRSC411, or ENST611.

Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.

0101	Raymond Weil	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	ANS 1422

ENST622 **Advanced Soil Microbial Ecology**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: ENST200; or 1 course in BCHM; or must have completed one course in microbiology; or students who have taken courses with comparable content may contact the department. Also offered as: ENST422. Credit only granted for: ENST422 or ENST622.

The interdisciplinary study of soil microorganisms and their interactions with the mineral matrix; resulting in processes such as nutrient cycling, decontamination, and natural product production. We will focus on the diversity of soil communities, their survival strategies, and the new strategies used to study these communities.The course will include an examination of current literature in this field.

0101	Stephanie Yarwood	Seats (Total: 15)
	TuTh 9:30am - 10:45am Contact instructor or department for details.	HBK 0115

ENST650 **Advanced Wetland Ecology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: BIOM301; or permission of AGNR-Environmental Science & Technology department. Also offered as: ENST450, MEES650. Credit only granted for: ENST450, ENST650, or MEES650.

Plant and animal communities, biogeochemistry, and ecosystem properties of wetland systems. Laboratory emphasizes collection and analysis of field data on wetland vegetation, soil, and hydrology.

Course requires two Saturday field trips.

0101	Andrew Baldwin	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ANS 0422

ENST689E **Special Topics; Advanced Ecosystem Health and Natural Resource Management**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Restricted to student in the ENST graduate program.

0101	Paul Leisnham, William Bowerman	Seats (Total: 15)
	Tu 2:00pm - 3:15pm Contact instructor or department for details.	ANS 1420

ENST689J **Special Topics; Valuing Ecosystem Services**

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Robert Tjaden	Seats (Total: 6)
	TuTh 12:30pm - 1:45pm	ANS 0422

ENST689R **Special Topics; Invasive Ecology**

Credits: 1-3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Two Saturday field trips are scheduled. Prerequisite: One semsester of biology or permission of department. We will examine ecological, evolutionary, and anthropogenic processes facilitating or resisting biological invasions, and consider their environmental, economic, and human health impacts. We will consider various management strategies to mitigate invasions and identify areas of future research. Field trips and detailed discussion of recent findings and controversies in the literature will help illustrate fundamental concepts of invasions among various ecosystems.

0101	Paul Leisnham	Seats (Total: 10)
	MW 10:00am - 11:15am	ANS 1420

ENST689X **Special Topics; Methods in University Teaching**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Raymond Weil	Seats (Total: 1)
	Contact instructor or department for details.	

ENST789 **Advances in Research**

Credits: 1-4 Grading Method: Regular, Audit

A study of recent advances in agronomy research.

Contact department for information to register for this course.

ENST798 **Graduate Seminar**

Credits: 1 Grading Method: Regular, Audit

Designed to provide a venue for interactive discussion between ENST graduate students and other members of the ENST community regarding thesis/dissertation research planned or conducted as part of the students graduate program.

0101	Stephanie Yarwood, Martin Rabenhorst	Seats (Total: 30)
	W 4:00pm - 4:50pm	ANS 0408

ENST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENTM Entomology Fall 2015

ENTM699J **Advanced Entomology; Spider Taxonomy**

Credits: 1 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

0101	Jeffrey Shultz	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM699K **Advanced Entomology; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

Also offered as BIOL608K, CBMG699K, and CHEM608K. Credit will be granted for only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

0101	Gili Ad-Marbach	Seats (Total: 28)
	W 12:00pm - 1:40pm	BPS 1208

ENTM699W **Advanced Entomology; Insect Physiology and Molecular Biology**

Credits: 2 Grading Method: Regular, Audit

Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.

0101	Jian Wang	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM701 **Effective Teaching: TA Training**

(Perm req)

Credits: 1 Grading Method: Regular

A survey and discussion of topics pertinent to graduate students who ar first-time teaching assistants, including teaching responsibilities and policies, effective techniques of lecturing and leading discussions, composing and grading quizzes and exams, cultural diversity, time management, and development of a teaching portfolio. All teaching assistants in the College of Life Sciences must take a 701 TA training course in one of the departments.

0101	Bretton Kent	Seats (Total: 20)
	Tu 6:00pm - 8:00pm	BPS 1208

ENTM710 **Insect Biodiversity, Physiology and Ecology**

Credits: 3 Grading Method: Regular

A survey course discussing the various families of insects, discuss thing their anatomy and physiology, and their role in ecological systems. Students will examine the ecological and evolutionary perspectives on interactions between plants and vertebrate and invertebrate animals. Further, it explores the applied consequences of animal-plant interactions to agroecology and conservation biology. These goals are achieved by reviewing the theoretical underpinnings of animal-plant interactions, and exposing students to research literature on animal-plant interactions.

PLE1	Marcia Shofner	Seats (Total: 10)	
	Meets August 31, 2015 - November 17, 2015		
	Class time/details on ELMs	ONLINE	
	Restricted to students in the Professional Entomology Program.		

ENTM745 **Bee Biology and Beekeeping**

Credits: 3 Grading Method: Regular

Students will be introduced to the anatomy and physiology of the honey bee colony with emphasis on how to use this information to best manage honey bee colonies.

PLE1	Dennis vanEngelsdorp	Seats (Total: 10)	
	Meets August 31, 2015 - November 17, 2015		
	Class time/details on ELMs	ONLINE	
	Restricted to students in the Professional Entomology Program.		

ENTM788C **Entomological Topics; Colloquium**

Credits: 1-3 Grading Method: Regular, Audit

One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.

0101	Raymond StLeger, Holly Martinson	Seats (Total: 45)	
	F 12:00pm - 12:50pm	PLS 1130	
	F 1:00pm - 1:50pm	PLS 1130	Discussion

ENTM798F **Topic Seminar; Genetic Technologies in Insect Science: Theory & Application**

Credits: 1 Grading Method: Regular, Audit

Discussion and presentation of current research and literature.

0101	David O'Brochta	Seats (Total: 20)	
	W 3:00pm - 5:00pm	PLS 1115	Discussion

ENTM798K **Topic Seminar; Insect/Plant Interactions**

Credits: 1 Grading Method: Regular, Audit

Discussion and presentation of current research and literature.

0101	Charles Mitter	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM798Y **Topic Seminar; Biodiversity**

Credits: 1 Grading Method: Regular, Audit

Discussion and presentation of current research and literature.

0101	Daniel Gruner	Seats (Total: 15)
	Contact instructor or department for details.	

ENTM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENTM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENTM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENTS Telecommunications Fall 2015

ENTS622 **Introduction to Digital Communication Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program; or permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENTS622 or ENTS689B. Formerly: ENTS689B.

Principles of analog and digital communication systems design. Analysis of the performance and relative merits of different modulation and demodulation, signal processing, filtering and error control schemes in communication systems. Also provides an understanding of the design of modern digital communication systems.

0101	Alejandra Mercado M 5:30pm - 8:15pm W 5:30pm - 6:45pm	Seats (Total: 24) EGR 0110 AVW 1458	 Lab
0102	Alejandra Mercado M 5:30pm - 8:15pm W 9:00am - 10:15am	Seats (Total: 24) EGR 0110 AVW 1458	 Lab
0201	Alejandra Mercado M 9:00am - 11:45am Th 9:00am - 10:15am	Seats (Total: 24) EGR 0110 AVW 1458	 Lab
0202	Alejandra Mercado M 9:00am - 11:45am Th 10:30am - 11:45am	Seats (Total: 24) EGR 0110 AVW 1458	 Lab

ENTS625 **Management and Organizational Behavior in the Telecommunications Industry**

Credits: 3 Grading Method: Regular, Audit

Roles of the general manager in: determining target markets and designing strategies for them; formulating and implementing corporate and business level strategies; and staffing, developing, and managing human resources and coordinating them with the organization's financial and physical resources. Also emphasizes the building of interpersonal skills with respect to the selection of members for work teams and team formation, leadership of teams toward the achievement of strategic goals and total quality, the development and motivation of team members, and the evaluation of team and individual performance.

0101	David Kressler Th 5:30pm - 8:15pm	Seats (Total: 40) LEF 2166
0201	David Kressler Th 2:00pm - 4:45pm	Seats (Total: 40) HBK 0109

ENTS629A **Special Topics in Cybersecurity; System Security**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in cybersecurity.

0101	Siddique Kabir W 5:30pm - 8:15pm	Seats (Total: 30) EGR 0135

ENTS630 **The Economics of International Telecommunications**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Basic microeconomic principles used by telecommunications firms, including supply and demand, elasticity, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.

Restricted to ENTS majors. All non-majors will need to obtain department permission.

0101	Jahangir Boroumand W 5:30pm - 8:15pm	Seats (Total: 40) SQH 1121
0201	Jahangir Boroumand W 2:00pm - 4:45pm	Seats (Total: 40) TYD 1101

ENTS632 **Telecommunications Marketing Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

Topics covered include strategic marketing, sales and customer service challenges confronting organizations in the computer, communications and media industries. The course also addresses volatile technology, regulatory and competitive environments as a backdrop to strategic planning and management in the marketing domain.

0101	Janet Wagner Tu 5:30pm - 8:15pm	Seats (Total: 40) CSI 3120
0201	Janet Wagner Tu 2:00pm - 4:45pm	Seats (Total: 40) ITV 1100

ENTS635 **Decision Support Methods for Telecommunication Managers**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

The aim of this course is to introduce management science techniques for informed decision making. Topics covered can include data analysis and regression, optimization models and applications (workforce scheduling, manufacturing, network design, facility location), sensitivity analysis, decision trees, risk analysis and business simulation models. Emphasis will be on telecommunications managerial problems, model development and the use of software packages for decision support.

Restricted to ENTS majors. All non-majors will need to obtain department permission.

0101	Kazim Ruhi M 5:30pm - 8:15pm	Seats (Total: 40) SQH 1103	
0201	Kazim Ruhi M 2:00pm - 4:45pm	Seats (Total: 40) ASY 3211	

ENTS640 Networks and Protocols I

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program.

An overview of design issues and the important industry standards for digital communications networks. This includes protocols, data communications technologies, error correction and detection, congestion control, traffic routing, Local Area Network (LAN) protocols, TCP/IP, and some security issues.

0101	Zoltan Safar W 5:30pm - 8:15pm Tu 5:30pm - 8:15pm	Seats (Total: 24) CSS 2428 AVW 1458	 Lab
0102	Zoltan Safar W 5:30pm - 8:15pm Th 5:30pm - 8:15pm	Seats (Total: 24) CSS 2428 AVW 1458	 Lab
0201	Zoltan Safar W 2:00pm - 4:45pm Tu 2:00pm - 4:45pm	Seats (Total: 24) CSS 2324 AVW 1458	 Lab
0202	Zoltan Safar W 2:00pm - 4:45pm Th 2:00pm - 4:45pm	Seats (Total: 24) CSS 2324 AVW 1458	 Lab

ENTS641 **Networks and Protocols II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENTS640. Restriction: Must be in Telecommunications (Master's) program.

Techniques for the specification, design, analysis, verification and testing of communication protocols are discussed. The course includes detailed discussion on routing protocols in the Internet. This includes Routing Information Protocol (RIP), Enchanced Interior Gateway Routing Protocol (EIGRP). Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP4).

0101	Mehdi Kalantari Khandani Th 5:30pm - 8:15pm	Seats (Total: 40) EGR 3106

ENTS649B **Special Topics in Networking; Cloud Computing**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in networking.

0101	Reza Eftekari F 9:00am - 12:00pm	Seats (Total: 30) CSI 2120

ENTS653 **AWS/PCS System Implementation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Telecommunications (Master's) program. Credit only granted for: ENTS653 or ENTS689A. Formerly: ENTS689A.

Engineering issues associated with designing and deploying a AWS/PCS cellular wireless communications system in the current world environment will be examined. The course will focus on implementation issues such as the impact of real world concerns on the deployment strategy and the use of good engineering practice to overcome obstacles. Students will create and modify mock deployments using professional tools for cell planning and interference analysis. Students will also be exposed to drive testing tools and concepts for migration to future technologies.

0101	Michael Dellomo Th 5:30pm - 8:15pm	Seats (Total: 40) ITV 1100
0201	Michael Dellomo Th 2:00pm - 4:45pm	Seats (Total: 40) ITV 1100

ENTS673 **Project Management for Telecommunications**

Credits: 3 Grading Method: Regular, Audit

Formerly: ENTS689P.

Introduces modiern project management. Begins with an overview and expands into Adaptive and Extreme project management. The focus then shifts to the individual skills required to be an effective project manager, such as time management, leadership and motivation. Once skills of the individual have been addressed, social networks and how they impact project management are examined.

0101	Kazim Ruhi	Seats (Total: 30)
	Tu 5:30pm - 8:15pm	SQH 1105

ENTS689F **Special Topics in Telecommunications; Fundamentals of Wireless LANs**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Rikin Thakker	Seats (Total: 30)
	F 5:30pm - 8:15pm	EGR 2154

ENTS689K **Special Topics in Telecommunications; Telecommunications Entrepreneurial Practicum**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

Department permission required.

0101	Michael Dellomo	Seats (Total: 3)
	Contact instructor or department for details.	

ENTS689N **Special Topics in Telecommunications; Network Programming**

Credits: 3 Grading Method: Regular, Audit

Selected topics of current importance in telecommunications.

0101	Justin Yackoski	Seats (Total: 30)
	M 5:30pm - 8:15pm	EGR 2116

ENTS749A **Advanced Topics in Networking; Network Traffic and Application Performance Analysis**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in networking.

0101	Majid Raissi-Dehkordi	Seats (Total: 24)
	M 5:30pm - 8:15pm	AVW 1458

ENTS749D **Advanced Topics in Networking; Network Design and Configuration Lab**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in networking.

0101	Zoltan Safar	Seats (Total: 18)
	F 2:00pm - 4:45pm	AVW 1324

ENTS759A **Advanced Topics in Communications; 3G/4G Wireless Networks and Systems**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in communications.

0101	Kamran Etemad	Seats (Total: 24)
	M 1:00pm - 3:45pm	AVW 1458

ENTS759D **Advanced Topics in Communications; Distributed Antenna Systems (DAS) and Small Cells**

Credits: 3 Grading Method: Regular, Audit

Selected advanced topics in communications.

Prerequisites: ENTS656 or ENTS653.

0101	Rikin Thakker	Seats (Total: 30)
	F 2:00pm - 4:45pm	EGR 2116

EPIB Epidemiology and Biostatistics Fall 2015

EPIB300 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program. Also offered as: HLTH300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Jing Zhang W 4:00pm - 6:30pm	Seats (Total: 54) LEF 2166

EPIB301 Epidemiology for Public Health Practice

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in EPIB300. Restriction: Must be in one of the following programs (Community Health; Public Health Science). Also offered as: HLTH301. Credit only granted for: EPIB301 and HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

0101	Typhanye Dyer MWF 12:00pm - 12:50pm	Seats (Total: 40) SPH 1303
SG91	Bonnie Richter Tu 5:00pm - 7:50pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 18) Location: TBA
SG92	Michael Bazaco W 6:00pm - 8:50pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 18) Location: TBA

EPIB330 The Coming Plague: Public Health Perspectives

Credits: 3 Grading Method: Regular

Prerequisite: BSCI202.

Disease control and prevention is fundamental to the health of local, national, and global populations. Infectious agents are constantly adapting and breaching our defenses. Factors related to society, the environment, and our increasing global interconnectedness increase the likelihood of disease emergence and spread. Vaccines and antibiotics, demographic changes and urbanization, climate change and natural disasters, international travel and commerce, poverty and war create conditions for infectious diseases to spread. So how do we design and execute solutions to public health threats? How do research, policies, interventions, and budgets affect public health systems?

SG91	Graciela Jaschek	Seats (Total: 36)
	Tu 9:00am - 11:50am	Location: TBA
	Restricted to Public Health Science students.	

EPIB331 **Introduction to SAS Programming**

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed EPIB300 with a C- or better or be currently enrolled in EPIB300. Restriction: Must be a PHSC major and must have completed a minimum of 45 credits or by permission of department.

SAS programming for the statistical procedures, introduced in EPIB300, begins by introducing the students to basic preliminary data analysis and graphs. The class studies the implementation of other statistical concepts such as Ttests, ANOVA and correlation.

0101	Raul Cruz-Cano	Seats (Total: 12)
	W 3:00pm - 3:50pm	SPH 1302

EPIB399 **Epidemiology and Biostatistics Independent Study**

Credits: 1-3 Grading Method: Regular

The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.

Contact department for information to register for this course.

EPIB610 **Foundations of Epidemiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EPIB610 or HLTH720. Formerly: HLTH720.

Introduction to the discipline of epidemiology and its applications to health issues and practices. Basic epidemiologic concepts and methods will be covered.

0101	Olivia Carter-Pokras Th 4:00pm - 6:45pm	Seats (Total: 25) SPH 0302

EPIB612 **Epidemiologic Study Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB650, EPIB610, and EPIB611.

Application of epidemiologic study designs, analytic methods used for analysis of cohort, case-control, cross-sectional, and clinical trials research.

Prequisties: EPIB650, EOIB610, and EPIB611.

0101	Hongjie Liu M 4:00pm - 6:45pm	Seats (Total: 20) SPH 0307

EPIB622 **Social Determinants of Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB610.

Overview of the major social variables that affect public health, including socioeconomic status, poverty, income distribution, race, social networks/support, community cohesion, psychological stress, gender, and work and neighborhood environment.

0101	Sunmin Lee Th 4:00pm - 6:45pm	Seats (Total: 20) SPH 0301

EPIB626 **Epidemiology of Obesity**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB610.

Overview of the epidemiological, prevention, and treatment of obesity, its causes and consequences, and energy balance issues; application of epidemiologic methods to the study of obesity epidemiology.

0101	Cher Dallal Th 1:00pm - 3:45pm	Seats (Total: 15) SPH 2234CC

EPIB650 **Biostatistics I**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: EPIB650, HLTH651, or HLTH688B. Formerly: HLTH651 and HLTH688B.

Basic statistical concepts and procedures for Public Health. Focuses on applications, hands-on-experience, and interpretations of statistical findings.

0101	Xin He	Seats (Total: 25)
	Tu 5:00pm - 7:45pm	SPH 0308

EPIB652 **Categorical Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EPIB650 and EPIB651. Recommended: EPIB698C (SAS Basics).

Methods for analysis of categorical data as applied to public health research, including contingency tables, logistic regression, multicategory logic models, loglinear models, and models for matched-pairs.

0101	Shuo Chen	Seats (Total: 20)
	W 4:00pm - 6:45pm	SPH 0301

EPIB655 **Longitudinal Data Analysis**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: EPIB650 and EPIB651.

Statistical models for drawing scientific inferences from longitudinal data, longitudinal study design, repeated measures and random effects to account for experimental designs that involve correlated responses, handling of missing data.

0101	Xin He	Seats (Total: 10)
	Tu 1:00pm - 3:45pm	SPH 0225

EPIB672 **Public Health Informatics**

Credits: 3

Grading Method: Regular, Audit

Restriction: Instructor permission is required for students not enrolled in a degree seeking program in the School of Public Health. Also offered as: HLTH672. Credit only granted for: HLTH670 or HLTH672 or EPIB672. Formerly: HLTH670. Additional information: Course hashtag - #umdphi12.

A basic overview of Informatics and its application in a public health setting. The major goal is for students to understand the basic tools and building blocks needed to utilize this technology in order to improve their professional productivity

0101	Robert Gold, Sandra Saperstein Tu 7:00pm - 9:45pm	Seats (Total: 25) SPH 0303

EPIB697 **Public Health Data Management**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor.

Many graduate students are faced with the intimidating task of performing data analyses for their theses and dissertations. Students quickly discover that getting the data ready for analysis is a complex process and do not feel ready to take on the task. This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

0101	Graciela Jaschek, Raul Cruz-Cano W 4:00pm - 6:40pm	Seats (Total: 12) SPH 0227

EPIB785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB788 **Critical Readings in Epidemiology and Biostatistics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Open to master and doctoral students to discuss critical readings in Epidemiology and Biostatistics.

Contact department for information to register for this course.

EPIB798 **Independent Study**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EPIB898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EPIB899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

EXST Office of Extended Studies Fall 2015

EXST009A **Fundamentals of Interpreting; Chinese into English/English into Chinese Interpretation**

Credits: 0

Grading Method:

PG01	Handan Bao	Seats (Total: 16)
	W 10:00am - 2:00pm	Location: TBA
	Course begins October 14th. Restricted to students in GSIT Program.	

EXST009B **Fundamentals of Interpreting; Chinese Sight Translation**

Credits: 0

Grading Method:

PG01	Yu Tang	Seats (Total: 16)
	Th 6:30pm - 8:30pm	Location: TBA
	Meets evrey other week beginning Sept. 3rd. Restricted to students in GSIT program.	

EXST009D **Fundamentals of Interpreting; Korean Sight Translation**

Credits: 0 Grading Method:

Saturday meeting every other week beginning Sep. 5, Monday meeting every other week beginning Sep. 7.

PG01	Yong-Ha Lee, Lee Boese	Seats (Total: 16)
	M 2:00pm - 3:00pm	SKN 2127
	Sa 2:00pm - 3:00pm	SKN 2127
	Restricted to students in GSIT Program. Saturday meeting every other week beginning Sep. 5, Monday meeting every other week beginning Sep. 21.	

EXST009E **Fundamentals of Interpreting; Spanish into English/English into Spanish Interpretation**

Credits: 0 Grading Method:

PG01	Rosalinda Meza-Steel, Teresa Salazar	Seats (Total: 16)
	Sa 4:00pm - 6:00pm	SKN 3118
	W 5:30pm - 7:30pm	SKN 3118
	Wednesday meeting every other week beginning Sep. 9, Saturday meeting every other week beginning Sep. 12. Restricted to students in GSIT Program.	

EXST009F **Fundamentals of Interpreting; Spanish/English Sight Translation**

Credits: 0 Grading Method:

PG01	M Santangelo, Teresa Salazar	Seats (Total: 16)
	Sa 10:00am - 11:00am	SKN 3118
	W 7:30pm - 8:30pm	SKN 3118
	Wednesday meeting every other week beginning Sep. 9, Saturday meeting every other week beginning Sep. 12. Restricted to students in GSIT Program.	

EXST009M **Fundamentals of Interpreting; French Sight Translation**

Credits: 0 Grading Method:

PG01	Pascale Kraus, Gerard Francois	Seats (Total: 16)
	M 2:00pm - 3:00pm	SKN 3117
	Sa 12:00pm - 1:00pm	SKN 3117
	Monday meeting every other week beginning Aug. 31, Saturday meeting every other week beginning Sep. 5. Restricted to students in GSIT Program.	

EXST009N **Fundamentals of Interpreting; Arabic Sight Translation**

Credits: 0 Grading Method:

PG01	Mahmoud Elgibali	Seats (Total: 16)
	M 11:00am - 1:00pm	SKN 3117
	Every other week beginning Aug. 31st. Restricted to students in GSIT program.	

EXST009O **Fundamentals of Interpreting; Russian Fundamentals of Interpreting**

Credits: 0 Grading Method:

PG01	Nikolai Sorokin	Seats (Total: 16)
	Tu 10:00am - 12:00pm	SKN 3117
	Meets every other week beginning Sep. 22nd. Restricted to students in GSIT program.	
PG02	Instructor: TBA	Seats (Total: 16)
PG03	Instructor: TBA	Seats (Total: 16)

EXST009P **Fundamentals of Interpreting; Russian Sight Translation**

Credits: 0 Grading Method:

PG01	Nikolai Sorokin, Alexander Dubrovin	Seats (Total: 16)
	Tu 12:00pm - 12:50pm	SKN 3117
	Tu 7:30pm - 8:30pm	Location: TBA
	7:30pm meeting meets every other week beginning Sep. 1st, 12:00 pm meeting meets every other week beginning Sep. 22nd. Restricted to students in GSIT program.	
PG02	Instructor: TBA	Seats (Total: 16)

EXST018A **Advanced Consecutive Interpretation; Spanish**

Credits: 0 Grading Method:

PG01	Iciar Gomez	Seats (Total: 16)
	W 12:00pm - 2:00pm	TYD 1108
	Restricted to Students in GSIT Program. Every other week beginning Sep. 23.	
PG02	Instructor: TBA	Seats (Total: 16)

EXST018B **Advanced Consecutive Interpretation; Chinese into English/English into Chinese Interpretation**

Credits: 0 Grading Method:

PG01	Victoria Segal, Ni Meggers	Seats (Total: 16)
	Sa 12:00pm - 2:00pm	SKN 3118
	Restricted to students in GSIT Program.	

EXST018C **Advanced Consecutive Interpretation; Korean into English/English into Korean Interpretation**

Credits: 0 Grading Method:

PG01	Yong-Ha Lee, Jamie Wright	Seats (Total: 16)
	M 10:00am - 12:00pm	SKN 3118
	W 11:00am - 1:00pm	SKN 3118
	Wednesday meeting meets every other week beginning Sep. 9, Modany meeting meets every other week beginning Sep. 21. Restricted to students in GSIT Program.	

EXST018D **Advanced Consecutive Interpretation; French**

Credits: 0 Grading Method:

PG01	Gerard Francois	Seats (Total: 16)
	M 10:00am - 12:00pm	SKN 3118
	Meets every other week beginning Aug. 31. Restricted to students in GSIT program.	

EXST028A **Simultaneous Interpretation; Chinese into English/English into Chinese**

Credits: 0 Grading Method:

PG01	Handan Bao	Seats (Total: 16)
	W 3:00pm - 5:00pm	SKN 3118
	Sa 2:30pm - 4:30pm	SKN 3118
	Saturday meeting meets every other week beginning Sep. 5, Wednesday meeting begins Oct. 14. Restricted to students in GSIT Program.	

PG02	Instructor: TBA	Seats (Total: 16)

EXST028B **Simultaneous Interpretation; Korean into English/English into Korean**

Credits: 0 Grading Method:

PG01	Suha Kremin, Yong-Ha Lee	Seats (Total: 16)
	M 12:00pm - 2:00pm	SKN 3118
	Sa 10:00am - 12:00pm	SKN 3118
	Saturday meeting meets every other week beginning Sept. 5, Monday meeting meets every other week beginning Sep. 21. Restricted to students in GSIT Program.	

EXST028C **Simultaneous Interpretation; Spanish**

Credits: 0 Grading Method:

PG01	Thomas Afton	Seats (Total: 16)
	Tu 7:30pm - 9:30pm	SKN 3118
	Contact instructor or department for details.	
	Every other week beginning Sep. 1. Restricted to students in GSIT Program.	
PG02	Instructor: TBA	Seats (Total: 16)

EXST028D **Simultaneous Interpretation; Arabic**

Credits: 0 Grading Method:

PG01	Mona Tahar, Nina Behrens	Seats (Total: 16)
	M 3:30pm - 5:30pm	SKN 3118
	Contact instructor or department for details.	
	Mondy meeting meets every other week beginning Aug. 31. Additional meetings: Sep. 5 12:00pm - 5:00pm, Dec. 14, 15, 16, 17, 18: Time: TBD. Restricted to students in GSIT Program.	

EXST028E **Simultaneous Interpretation; French**

Credits: 0 Grading Method:

PG01	Gerard Francois	Seats (Total: 16)
	M 12:00pm - 2:00pm	SKN 3118
	Every other week beginning Aug. 31. Restricted to students in GSIT program.	

EXST039A **Fundamentals of Translation; English into Spanish Translation/Spanish into English Translation**

Credits: 0 Grading Method:

PG01	Charles Becker, M Santangelo	Seats (Total: 16)
	Sa 1:30pm - 3:30pm	SKN 3118
	Sa 11:00am - 1:00pm	SKN 3118
	Restricted to students in GSIT Program. Every other week beginning Sep. 12.	

EXST039B **Fundamentals of Translation; Chinese into English/English into Chinese Translation**

Credits: 0 Grading Method:

PG01	Irina Knizhnik, Min Eu	Seats (Total: 16)
	Tu 10:30am - 12:30pm	Location: TBA
	Tu 5:30pm - 7:30pm	Location: TBA
	Restricted to students in GSIT Program. Evening meeting every other week beginning Sep. 1, morning meeting every other week beginning Sep. 8.	

EXST039C **Fundamentals of Translation; Korean into English/English into Korean Translation**

Credits: 0 Grading Method:

PG01	McDonald Hyunju	Seats (Total: 16)
	M 10:00am - 12:30pm	Location: TBA
	Meets every other week beginning Aug. 31. Also, meeting Sep. 12 and Dec 5 from 11:00am - 4:00pm. Restricted to students in GSIT Program.	

EXST039D **Fundamentals of Translation; Arabic into English Translation/English into Arabic Translation**

Credits: 0 Grading Method:

PG01	Mahmoud Elgibali, Richard Popp	Seats (Total: 16)
	M 1:30pm - 3:30pm	SKN 2127
	Th 5:00pm - 7:00pm	Location: TBA
	Monday begins every other week beginning Aug. 31, Thursday begins every other week beginning Sep. 10. Restricted to students in GSIT Program.	

EXST039E **Fundamentals of Translation; French into English Translation/English into French Translation**

Credits: 0 Grading Method:

PG01	Pascale Kraus	Seats (Total: 16)
	Sa 8:00am - 12:00pm	SKN 3117
	Every other week beginning Sep. 5. Restricted to students in GSIT Program.	

EXST039F **Fundamentals of Translation; Russian into English Translation/English into Russian Translation**

Credits: 0 Grading Method:

PG01	Alexander Dubrovin, Irina Knizhnik	Seats (Total: 16)
	Tu 5:30pm - 7:30pm	Location: TBA
	Restricted to students in GSIT program.	

EXST039G **Fundamentals of Translation; English/Italian, French Sight Translation**

Credits: 0 Grading Method:

PG01	Karen Riechert	Seats (Total: 5)
	Th 11:30am - 12:30pm	SKN 2127
	Meets every other week beginning September 11. Restricted to students in GSIT Program.	

EXST059A **Translation for Language-Specific Markets; Arabic**

Credits: 0 Grading Method: Regular, Pass-Fail, Audit

PG01	Mark Green, Osama Sadick	Seats (Total: 16)
	Th 10:30am - 12:30pm	SKN 2127
	Restricted to students in GSIT program.	

EXST059B **Translation for Language-Specific Markets; Spanish**

Credits: 0 Grading Method: Regular, Pass-Fail, Audit

PG01	Roxana Del Barco, Joseph Mazza	Seats (Total: 16)
	Tu 7:00pm - 9:00pm	Location: TBA
	Sa 10:00am - 12:00pm	Location: TBA
	Saturday meeting every other week beginning Sep. 5, Tuesday meeting every other week beginning Sep. 8. Restricted to students in GSIT program.	

EXST079A **Independent Study; Public Speaking: Diction**

Credits: 0 Grading Method:

PG01	Jean Vandenbosch, Andrew Wolvin Th 3:00pm - 4:00pm *Restricted to students in GSIT Program.*	Seats (Total: 10) SKN 2117

FILM Film Studies Fall 2015

FILM245 **Film Form and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Restriction: Must not have completed ENGL245. Also offered as: ENGL245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 10:00am - 10:50am	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0102	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 11:00am - 11:50am	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0103	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 12:00pm - 12:50pm	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion
0104	Eric Zakim TuTh 11:00am - 11:50am Th 3:30pm - 6:00pm F 1:00pm - 1:50pm	Seats (Total: 22) TWS 1100 JMZ 0220 TWS 1100	 Lab Discussion

0201	Steve Beaulieu	Seats (Total: 30)	
	MW 2:00pm - 3:15pm M 3:30pm - 6:00pm	TYD 0111 SQH 1101	Lab

FILM301 **Cinema History I: The Silent Era**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities.

Examines the development of silent cinema from the 1890s to the early 1930s drawing on at least five distinct national traditions (French, German, Russian, British, and American). Introduces students to key cinematic conventions as they emerged around the world.

0101	Jonathan Auerbach	Seats (Total: 30)
	MW 2:00pm - 3:50pm	HBK 0302H

FILM319G **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Guerilla Filmmaking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities. The course will examine the concept of Guerilla Filmmaking today in terms of political contents, aesthetic choices, and technological challenges. Students will address these questions from a critical and practical perspective using specific examples as well as their own approach.

0101	Caroline Eades	Seats (Total: 30)
	MW 12:00pm - 1:50pm	HBK 0302H

FILM345 **The Films of Alfred Hitchcock**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities. Credit only granted for: FILM345 or ENGL329J.

An examination of important Hitchcock films from the perspective of innovation, aesthetics, and cultural history.

0101	Marianne Conroy	Seats (Total: 28)
	TuTh 12:30pm - 1:45pm	TWS 0201

FILM359T **Special Topics in Genres/Auteurs/Cinema Movements; The Global Musical**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Also offered as ENGL329T. Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of ARHU-College of Arts & Humanities.

0101	Marit Knollmueller	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TWS 0236

FILM369A **Special Topics in Film Theories; Post-War Film Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Examines specific methodologies (structuralism, feminism, postcolonialism, etc.) for the critical analysis of film. The course will also consider the historical development of theoretical concepts. Content varies.

0101	Mauro Resmini	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ASY 3217

FILM388 **Experiential Learning: Film Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Connects students' theoretical understanding of film studies, as obtained through the classroom, to professional experience.

Contact department for information to register for this course.

FILM421 **Francophone African Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: FREN421. Credit only granted for: FREN421 or FILM421.

Imaginary and Memory in the Reality of Francophone African Film from 1960-present. Taught in English.

0101	Valerie Orlando	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	HBK 0302H	
	Tu 3:30pm - 5:00pm	HBK 0302H	Lab

FILM426 **Modern Chinese Film and Visual Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: ARTH484. Credit only granted for: FILM426 or ARTH484; ARTH489F in F2012, F2011, F2008, or S2009; or ARTH488F in S2010, S2008, or F2009. Formerly: ARTH489F in F2012, F2011, F2008, or S2009; or ARTH488F in S2010, S2008, or F2009.

Modern Chinese culture, society, and history studied through examples of art, film, and visual culture.

Also offered as ARTH484.

0101	Jason Kuo	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	HBK 0302J

FILM427 **Visions and Fictions from Spain**

Credits: 3 Grading Method: Regular

Prerequisite: SPAN331, SPAN332, or SPAN333; or students who have taken courses with comparable content may contact the department; or permission of ARHU-Spanish & Portuguese Languages & Literatures department. Also offered as: SPAN427. Credit only granted for: FILM427 or SPAN427.

Overview of Spanish Cinema from the end of the 19th century through present day Spain. Exploration of the production of literary and cinematic texts in their sociohistorical, political, religious and cultural contexts. Taught in Spanish.

0101	Jose Naharro-Calderon	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1122

FILM429C **Special Topics in National/International Cinemas; Contemporary Chinese and Chinese-American Cinema on Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as ARTH488C and WMST498J. Credit granted for ARTH488C, FILM429C, or WMST498J. Through a transnational study of major filmmakers from mainland China to Hong Kong, Taiwan, and the Chinese diaspora, the course is intended to consider issues of female cinematic authorship, gender and sexuality in cinematic representation, power and knowledge, negotiations of local and global cultural politics.

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

FILM430 **Critical Issues in Israeli Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Also offered as: HEBR430. Credit only granted for: HEBR430 or FILM430.

Critical investigation of Zionist and Israeli culture and politics through film.

Additional Note: Also offered as JWST429J, RELS419F, ISRL449K, and HEBR430. Credit granted for FILM430, JWST429J, RELS419F, ISRL449K or HEBR430.

0101	Eric Zakim	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1103

FILM431 **Italian Cinema II - In Translation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: ITAL473. Credit only granted for: ITAL473, ITAL474, or FILM431.

A study of Italian society and culture through the medium of film from the mid 1970's to the present. Taught in English.

0101	Mauro Resmini	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 2123

FILM499 **Directed Study in Film Studies**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Readings and Research in Film Studies under faculty supervison.

Contact department for information to register for this course.

FIRE First-Year Innovation & Research Experience Fall 2015

FIRE120 **FIRE SEMESTER 1**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.

Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.

0101	Yun Choi Tu 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 40) SPH 0302
0201	Cristina Risco Tu 2:00pm - 2:50pm Contact instructor or department for details.	Seats (Total: 40) CHM 1224
0301	Liang-Chun Wang W 10:00am - 10:50am Contact instructor or department for details.	Seats (Total: 40) SPH 1301
0401	Michael Egnoto W 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 40) SPH 1302
0501	Jennifer German Th 9:30am - 10:20am Contact instructor or department for details.	Seats (Total: 40) SPH 0302
0601	Amy Voltz Th 12:30pm - 1:20pm Contact instructor or department for details.	Seats (Total: 40) SPH 0308
0701	Ian Page F 10:00am - 10:50am Contact instructor or department for details.	Seats (Total: 40) KEB 1200

0801	Vivek Advani M 1:00pm - 1:50pm Contact instructor or department for details. *This section restricted to BioFIRE students.*	Seats (Total: 30) PHY 1219
FC01	Derrick Yeo TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) SYM 0215

FIRE120H **FIRE SEMESTER 1**

Credits: 3 Grading Method: Regular General Education: DSSP

Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.

Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.

0101	Patrick Killion M 9:00am - 9:50am Contact instructor or department for details.	Seats (Total: 40) KEB 1200

FIRE250 **FIRE SEMESTER 3: Antibiotic Resistance**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This course will focus on the concepts related to the process of independent research, including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes and discipline-specific methodologies. Scheduled class meetings will focus on the discussion of primary literature, troubleshooting research issues and continual review of individual and group research progress. The course requires each student to commit 8 additional hours of independent research per week.

A collaborative research engagement focusing on the emergence of antibiotic resistance in human pathogens. Research methods target understanding of how bacteria have evolved to become resistant to antibiotics. The implications with respect to human disease represents one of the greatest unmet research challenges of the 21st century.

0101	Liang-Chun Wang	Seats (Total: 35)
	M 10:00am - 10:50am Contact instructor or department for details.	EGR 0135
	Restricted to students in the FIRE program.	

FIRE251 **FIRE SEMESTER 3: Achieving Resource, Environment & Energy Sustainability**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This course will focus on the concepts related to the process of independent research, including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes and discipline-specific methodologies. Scheduled class meetings will focus on the discussion of primary literature, troubleshooting research issues and continual review of individual and group research progress. The course requires each student to commit 8 additional hours of independent research per week.

A collaborative research engagement focusing quantitative policy analysis related to resource, environment and energy sustainability. Research methods involve examination of how species characteristics, ecosystems, markets, technology and trade influence the conservation or overexploitation of natural resources. Additional areas of interest include analysis of adoption trends of renewable energy technologies and interventions to encourage households and small businesses to invest in cost-effective, energy-saving technologies.

0101	Ian Page	Seats (Total: 35)
	M 10:00am - 10:50am Contact instructor or department for details.	JMP 1109
	Restricted to students in the FIRE program.	

FIRE252 **FIRE SEMESTER 3: Controlling Environmental Contamination**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This is the second course in the FIRE (First-Year Innovation & Research Experience) program sequence and is for students participating in the Controlling Environmental Contamination innovation and research stream.

A collaborative research engagement focusing on microbial contamination of the Chesapeake Bay and local waterways. Research methods engaged include monitoring waterways for pathogenic organisms through genome fragment enrichment and direct sequencing to identify the sources of microbial contamination.

0101	Jennifer German	Seats (Total: 35)
	M 11:00am - 11:50am Contact instructor or department for details.	EGR 0135
	Restricted to students in the FIRE program.	

FIRE253 **FIRE SEMESTER 3: Found In Translation**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This course will focus on the concepts related to the process of independent research, including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes and discipline-specific methodologies. Scheduled class meetings will focus on the discussion of primary literature, troubleshooting research issues and continual review of individual and group research progress. The course requires each student to commit 8 additional hours of independent research per week.

A collaborative research engagement focusing on the characterization of programmed ribosomal frameshifting (PRF) in mammalian genomes. Research methods target identification and functional characterization of specific DNA sequences that act as PRF signals.

0101	Vivek Advani	Seats (Total: 35)
	M 12:00pm - 12:50pm	ITV 1111
	Contact instructor or department for details.	
	Restricted to students in the FIRE program.	

FIRE254 **FIRE SEMESTER 3: Risk Communication & Resilience**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This course will focus on the concepts related to the process of independent research, including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes and discipline-specific methodologies. Scheduled class meetings will focus on the discussion of primary literature, troubleshooting research issues and continual review of individual and group research progress. The course requires each student to commit 8 additional hours of independent research per week.

A collaborative research engagement focusing on producing science-based answers for how effective government communication can help individuals and communities best prepare for, respond to, and recover from disasters.

0101	Michael Egnoto	Seats (Total: 35)
	M 1:00pm - 1:50pm	EGR 0135
	Contact instructor or department for details.	
	Restricted to students in the FIRE program.	

FIRE255 **FIRE SEMESTER 3: Terrapin Genome Project**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This course will focus on the concepts related to the process of independent research, including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes and discipline-specific methodologies. Scheduled class meetings will focus on the discussion of primary literature, troubleshooting research issues and continual review of individual and group research progress. The course requires each student to commit 8 additional hours of independent research per week.

A collaborative research engagement focusing on the reconstruction and annotation of the genome of the diamondback terrapin, the Maryland State reptile and mascot of our University. Students will be involved both in biological activities related to high-throughput DNA and RNA (cDNA) sequencing, and in the bioinformatics analysis of the data generated.

0101	Amy Voltz	Seats (Total: 35)
	M 1:00pm - 1:50pm Contact instructor or department for details.	EGR 0108
	Restricted to students in the FIRE program.	

FIRE257 **FIRE SEMESTER 3: Addiction Science: Vulnerability, Processes & Treatment**

Credits: 3 Grading Method: Regular General Education: DSSP

Recommended: FIRE120. Additional information: This course will focus on the concepts related to the process of independent research, including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes and discipline-specific methodologies. Scheduled class meetings will focus on the discussion of primary literature, troubleshooting research issues and continual review of individual and group research progress. The course requires each student to commit 8 additional hours of independent research per week.

A collaborative research engagement focusing on understanding the mechanisms underlying the development, maintenance, and treatment of addiction. Students will gain experiences in fundamental research combined with efforts to develop intervention approaches that are effective in real-world clinical settings.

0101	Cristina Risco	Seats (Total: 35)
	M 2:00pm - 2:50pm Contact instructor or department for details.	EGR 0135
	Restricted to students in the FIRE program.	

FMSC Family Science Fall 2015

FMSC110S **Families and Global Health**

Credits: 3 Grading Method: Regular General Education: DSHS

Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.

0101	Elisabeth Maring	Seats (Total: 80)
	TuTh 11:00am - 12:15pm	CCC 1100
	Restricted to CPSP Global Public Health students.	

FMSC111 **Credit Cards and College Students**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

FCW1	Jinhee Kim	Seats (Total: 45)
	Meets October 18, 2015 - December 13, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in Freshmen Connection.	

FMSC170 **Future of Families: Issues and Controversies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Credit only granted for: FMSC170 or FMSC298F. Formerly: FMSC298F.

Examination of current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.

FC01	Kimberly Van Putten-Garnder	Seats (Total: 50)
	MW 3:00pm - 4:15pm	SPH 1301
	Restricted to students in Freshmen Connection.	

FMSC260 **Couple Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Credit only granted for: FMSC260 or FMST260. Formerly: FMST260.

Couple relationships and their alternatives in contemporary dating, courtship and marriage.

Restricted to Majors or non-majors with less than or equal to 60 credits.

0101	Elise Resnick TuTh 2:00pm - 3:15pm	Seats (Total: 52) SPH 1303

FMSC290 **Family Economics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC290 or FMST290. Formerly: FMST290.

Application of economic methodology to study families under various economic situations. Examination of how decisions about marriage, divorce, fertility, consumption and time use are influenced by labor/housing markets, tax structure, social welfare benefits and other economic considerations.

Restricted to Majors or non-majors with less than or equal to 60 credits.

0101	Manouchehr Mokhtari TuTh 5:00pm - 6:15pm	Seats (Total: 52) SPH 1301

FMSC302 **Research Methods in Family Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP

Prerequisite: Must have completed an introductory statistics course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC302 or FMST302. Formerly: FMST302.

Introduction to the methods of the social and behavioral sciences employed in family science. The role of theory, the development of hypotheses, measurement, design, and data analysis.

0101	Andrew Williams TuTh 9:30am - 10:45am	Seats (Total: 37) SPH 1303

FMSC330 **Family Theories and Patterns**

Credits: 3 | Grading Method: Regular, Audit | General Education: DSHS, DVUP

Restriction: Junior standing or higher. Credit only granted for: FMSC330 or FMST330. Formerly: FMST330.

Theory and research on the family, including a cross-cultural analysis of family patterns.

0101	Robyn Zeiger TuTh 9:30am - 10:45am	Seats (Total: 48) SPH 1301
0201	Leigh Leslie TuTh 12:30pm - 1:45pm	Seats (Total: 48) SPH 1303
0301	Elise Resnick TuTh 11:00am - 12:15pm	Seats (Total: 48) SPH 1303

FMSC332 **Children in Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

0101	Amy Lewin TuTh 11:00am - 12:15pm	Seats (Total: 52) SPH 1301
0201	Yoonjoo Lee MWF 12:00pm - 12:50pm	Seats (Total: 52) SPH 1301
0301	Christine Schull MWF 8:00am - 8:50am	Seats (Total: 52) SPH 1301

FMSC341 **Personal and Family Finance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

0101	Manouchehr Mokhtari TuTh 6:30pm - 7:45pm	Seats (Total: 48) SPH 1301

0201	William Knight Class time/details on ELMs	Seats (Total: 39) ONLINE
SG91	William Knight Tu 2:00pm - 4:50pm	Seats (Total: 40) BLD3 3220
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission."	
SG92	William Knight M 2:00pm - 4:30pm	Seats (Total: 20) Location: TBA
SG93	William Knight M 2:00pm - 4:30pm	Seats (Total: 20) Location: TBA

FMSC381 **Poverty, Affluence, and Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit , D | General Education: DSHS, DVUP

Prerequisite: SOCY100 or SOCY105. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC381 or FMST381. Formerly: FMST381.

Social, political, cultural and economic factors influencing income and wealth in American families.

0101	John Hart MWF 9:00am - 9:50am	Seats (Total: 40) SPH 1302
0201	Kevin Roy TuTh 3:30pm - 4:45pm	Seats (Total: 40) SPH 0308
SG91	Damian Waters Th 6:00pm - 8:50pm	Seats (Total: 36) Location: TBA
	Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.	

FMSC383 **Delivery of Human Services to Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC383 or FMST383. Formerly: FMST383.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

0101	Marian Jones MWF 11:00am - 11:50am	Seats (Total: 32) SPH 1303

FMSC399 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

FMSC410 **Maternal, Child and Family Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC410 or FMSC498A. Formerly: FMSC498A.

Overview of major issues, policies, and programs related to the health of women, children, and their families in the United States. Review of social, political, and economic determinants of maternal and child health and health disparities. Use of epidemiological methods and data to identify best practices for guiding maternal and child health policy and practice.

0101	Edmond Shenassa MWF 9:00am - 9:50am	Seats (Total: 36) SPH 0302
0201	Edmond Shenassa TuTh 11:00am - 12:15pm	Seats (Total: 36) SPH 1302
SG91	Alyssa Brooks M 5:00pm - 7:50pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 36) Location: TBA

FMSC431 **Family Crises and Intervention**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Credit only granted for: FMSC431 or FMST431. Formerly: FMST431.

Family crises such as divorce, disability, substance abuse, financial problems, intra-familial abuse, and death. Theories and techniques for intervention and enhancement of family coping strategies.

0101	Robyn Zeiger TuTh 12:30pm - 1:45pm	Seats (Total: 52) SPH 1301

FMSC432 **Adult Development and Aging in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

0101	Mona Mittal MWF 10:00am - 10:50am	Seats (Total: 32) SPH 0302
0201	Mona Mittal MWF 12:00pm - 12:50pm	Seats (Total: 32) SPH 1302

FMSC460 **Violence in Families**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

0101	Christine Schull MWF 9:00am - 9:50am	Seats (Total: 52) SPH 1301

FMSC477 **Internship and Analysis in Family Science**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

0101	Breanna Davis W 3:30pm - 5:00pm Contact instructor or department for details.	Seats (Total: 50) SPH 0308

FMSC487 **Legal Aspects of Family Problems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: FMSC487 or FMST487. Formerly: FMST487.

Laws and legal procedures, with emphasis on adoption, marriage, divorce, annulment, and property rights, and how they affect family life.

0101	Kerry Tripp TuTh 9:30am - 10:45am	Seats (Total: 27) SPH 1302
0201	Kerry Tripp TuTh 12:30pm - 1:45pm	Seats (Total: 27) SPH 1302

FMSC498 **Special Topics: Family Science; Family Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498H **Special Topics: Family Science; Family Studies Honors Thesis**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special course topics in family studies.

Contact department for information to register for this course.

FMSC600 **Family Theories**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: FMSC600 or FMST600. Formerly: FMST600.

An overview of the theoretical frameworks underlying research on the family. Survey of research findings.

0101	Kevin Roy Th 9:00am - 11:45am	Seats (Total: 15) Location: TBA

FMSC606 **Ethnic Families and Health Disparities**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: FMSC606 or FMST606. Formerly: FMST606.

Historical, psychosocial, economic, and political factors influencing the structure and functioning of ethnic families. Overview of racial and ethnic health disparities over the life course and ways in which they are influenced by multi-level contextual factors.

0101	Mia Smith-Bynum Th 2:00pm - 4:45pm	Seats (Total: 15) Location: TBA

FMSC640 **Family Therapy: Theory and Techniques**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: FMSC640 or FMST640. Formerly: FMST640.

Overview of fundamental theoretical concepts and clinical procedures in marital and family therapy, with an emphasis on those therapies which operate from a family systems perspective.

0101	Carol Werlinich M 10:00am - 12:45pm	Seats (Total: 11) Location: TBA

FMSC641 **Couples Therapy, Theory, and Techniques**

Credits: 3 Grading Method: Regular

Prerequisite: FMSC640. Credit only granted for: FMSC641 or FMSC641. Formerly: FMST641.

Overview of theoretical models of couple relationships and methods of facilitating growth and interaction within those relationships. Emphasis on couples with conflicting needs and expectations, and dysfunctional communication and conflict negotiation skills.

0101	Norman Epstein Th 1:00pm - 3:45pm	Seats (Total: 15) Location: TBA

FMSC650 **Ethical, Legal, and Professional Principles in Marriage and Family Therapy**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Family Science department. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC650 or FMST650. Formerly: FMST650.

An introduction to the basic principles and practices of family therapy Emphasis on basic therapy skills applied to a family context and on professional ethics of the family practitioner. Addresses therapist's legal responsibilities and liabilities, certification, and licensure issues.

0101	Norman Epstein Tu 9:00am - 11:45am	Seats (Total: 25) Location: TBA

FMSC652 **Diagnosis and Treatment of Mental and Emotional Disorders in Family Systems**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: FMSC651. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC652 or FMST652. Formerly: FMST652.

Systematic assessment, diagnosis, and treatment of mental and emotional disorders in couples and families. Utilization and critique of the current Diagnostic Statistical Manual Disorders (DSM).

0101	Leigh Leslie Tu 9:00am - 11:45am *Class will be held in SPH0142X.*	Seats (Total: 20) Location: TBA

FMSC658 **Supervised Clinical Practice of Marriage and Family Therapy**

(Perm req)

Credits: 1-2

Grading Method: Regular, Audit

The supervision of marriage and family therapy client contact. Various family systems models of supervision applied via extant methods, including live, videotaped, and audiotaped.

Prerequisite: FMST 650 and permission of instructor.

0101	Norman Epstein W 9:00am - 12:00pm	Seats (Total: 20) Location: TBA

FMSC660 **Program Planning and Evaluation in Family Science**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: FMSC660 or FMST660. Formerly: FMST660.

Theory and methods of program planning and evaluation with special emphasis on family programs. Assessment of program goals and the social and psychological factors involved in program implementation. Methods for measuring the effectiveness of program delivery, as well as the impact of services on family functioning.

0101	Amy Lewin M 2:00pm - 4:45pm	Seats (Total: 15) Location: TBA

FMSC689 **Research Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC699 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

FMSC789 **Non-Thesis Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Non-thesis option research papers.

Contact department for information to register for this course.

FMSC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC879 **Preparing Future Faculty and Professionals Seminar**

Credits: 1 Grading Method: Regular

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health. Topics include: career mapping, networking, teaching/teaching portfolios, independent research, publishing, grant writing, program and policy evaluation, consulting, job search, interviewing and negotiation, mentoring, diversity, work-family balance, and ethical issues in the workplace. Periodic visits to universities and government/nonprofit employers.

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health.

0101	Elaine Anderson, Sally Koblinsky	Seats (Total: 30)
	W 1:00pm - 1:50pm	Location: TBA

FMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FMSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FOLA Foreign Language Fall 2015

FOLA158X **Directed Study of a Foreign Language (Intensive) I; Elementary Urdu (Intensive)**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Intensive directed study of a modern foreign language with use of a self-instructional approach. Equivalent to FOLA138 plus FOLA139.

Students may register for FOLA 158X or 158P, not both.

0101	Naime Yaramanoglu W 6:30pm - 9:30pm Contact instructor or department for details.	Seats (Total: 9) JMZ 3120	Lab

FOLA159X **Directed Study of a Foreign Language (Intensive) II; Intermediate Urdu**

(Perm req)

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

A continuation of FOLA158. Equivalent to FOLA148 plus FOLA149.

Prerequisite: FOLA 158X or 158P or 139P or consent of program director.

0101	Naime Yaramanoglu Th 6:30pm - 9:30pm Contact instructor or department for details.	Seats (Total: 9) JMZ 3120	Lab

FREN French Fall 2015

FREN103 **Intensive Elementary French**

Credits: 4

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

BL01	Lindsey Reinstrom MWF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) JMZ 0208 ONLINE
BL02	Alex Joensen MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2207 ONLINE
BL03	Charlee Redman MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) WDS 0104 ONLINE

FREN203 **Intensive Intermediate French**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

BL01	Jillian Bruns MWF 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 25) JMZ 0205 ONLINE
BL02	Cae Joseph-Massena MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 3205 ONLINE
BL03	Francesca Roth MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 2122 ONLINE
BL04	Hannah Wegmann MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 3205 ONLINE

FREN204 **French Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

0101	Meghan Cleereman MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 1117
BL01	Meghan Cleereman MWF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) KEY 1117 ONLINE

BL02	Daniel Bowman MW 11:00am - 11:50am F 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) HBK 1112 HBK 0105 ONLINE

FREN211 **French Reading and Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN241 **Women Writers of French Expression in Translation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU

Works and ideas of 20th century women writers of French in Canada, Africa, the Caribbean and France. Taught in English.

Also offered as WMST298M. Credit granted for FREN241 or WMST298M.

0101	Madeleine Hage TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMZ 2123

FREN250 **Introduction to Cultural and Textual Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

Also offered as FREN 250H.

0101	Nathan Dize MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 1122

0201	Nathan Dize MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1122

FREN250H **Introduction to Cultural and Textual Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

For general honors students only. Also offered as FREN 250.

0101	Nathan Dize MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 1122
0201	Nathan Dize MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1122

FREN269F **Special Topics in Study Abroad II; French Conversation I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269G **Special Topics in Study Abroad II; French Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269P **Special Topics in Study Abroad II; Perspectives on Contemporary France**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN301 **Composition and Style**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

0101	Catherine Favier-Kelly TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 2122
0201	Andrea Frisch MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 1117

FREN303 **Translation: English to French**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Practicum in translation primarily from English to French; contrastive analysis.

0101	Elena Lozinsky TuTh 3:30pm - 4:45pm	Seats (Total: 20) JMZ 3203

FREN306 **Commercial French I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Introduction to commercial French including correspondence and business terminology. Emphasis on cross-cultural concepts needed for successful interaction within business settings. Taught in French.

Contact department for information to register for this course.

FREN311 **Advanced Oral Expression**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

Contact department for information to register for this course.

FREN312 **France Today**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using variou French media resources.

0101	Mercedes Baillargeon	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 2122

FREN351 **From Romanticism to the Age of Modernism and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Also offered as FREN 351H.

0101	Caroline Eades	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMZ 2123

FREN351H **From Romanticism to the Age of Modernism and Beyond**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Also offered as FREN351.

0101	Caroline Eades	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMZ 2123

FREN352 **From the Age of Epic and Romance to the Enlightenment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from the Middle Ages to the end of the 18th century.

Contact department for information to register for this course.

FREN369F **Special Topics in Study Abroad III; Third Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369G **Special Topics in Study Abroad III; Third-Year French II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369Y **Special Topics in Study Abroad III; Fourth-Year French I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

FREN399 **Directed Study in French**

(Perm req)

Credits: 1-3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Supervised work under professor of student's choice with permission of instructor. Contact department for details.

Contact department for information to register for this course.

FREN399A **Directed Study in French**

Credits: 3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN401 **Writing with Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FREN301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Advanced composition and stylistic analysis.

Contact department for information to register for this course.

FREN421 **Francophone African Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Also offered as: FILM421. Credit only granted for: FREN421 or FILM421.

Imaginary and Memory in the reality of Francophone African Film from 1960-present. Taught in English.

0101	Valerie Orlando	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	HBK 0302H	
	Tu 3:30pm - 5:00pm	HBK 0302H	Lab

FREN421H **Francophone African Film**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Also offered as: FILM421. Credit only granted for: FREN421 or FILM421.

Imaginary and Memory in the reality of Francophone African Film from 1960-present. Taught in English.

0101	Valerie Orlando	Seats (Total: 1)	
	TuTh 2:00pm - 3:15pm	HBK 0302H	
	Tu 3:30pm - 5:00pm	HBK 0302H	

FREN449A **Studies in 18th Century French Literature and Culture; Riots, Rebellions and Revolution: Cultures of Dissent**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Selected topics in eighteenth-century French literature.

Prerequisite: FREN 351 or FREN 352; or equivalent. Taught in French. While exploring the history, literature and culture of Eighteenth-century France, we will focus on the many forms that dissent took during the Enlightenment: deviations from established dogmas, reactions against religious intolerance, denunciation of the monarchy and its inequalities during the Ancient Regime and the French Revolution.

0101	Sarah Benharrech	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	JMZ 2123	

FREN474 **Contemporary France: A Sociocritical Approach**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Recommended: FREN473.

A sociocritical approach to understanding modern French society through the study of print and non-print media documents (autobiography, film, and paraliterature), with reference to the Francophone world.

0101	Mercedes Baillargeon TuTh 11:00am - 12:15pm	Seats (Total: 25) JMZ 0205

FREN495H **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be admitted to the departmental honors program.

The writing of a paper under the direction of a professor in this department and an oral examination. Required to fulfill the departmental honors requirement.

Contact department for information to register for this course.

FREN499X **Special Topics in French Studies; Directed Study in French**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN601 **The History of the French Language**

Credits: 3 Grading Method: Regular, Audit

0101	Mary Scullen Tu 4:30pm - 7:15pm	Seats (Total: 10) JMZ 2123

FREN649C **Special Topic in Eighteenth Century French Literature; Theater in the Age of Enlightenment**

Credits: 3 Grading Method: Regular, Audit

The objective of this course is to examine (1) the renewal of dramatic forms and themes through textual analysis in 18th-century plays; (2) how theatre took part in Eighteenth-century France social, political, and intellectual conflicts. The goal will be to study how dramaturgy was a tool of exploration and inquiry in moral philosophy (Lesage, Marivaux, Destouches, Gaffigny) and how, as a collective and cultural practice, theater staged the feuds between the philosophes and their opponents (Voltaire, Rousseau, Palissot, de Gouges). Finally this course will address Diderot's theoretical reflection on the "serious genre" and Beaumarchais' attempts to invent new dramatic forms that eschew the very idea of theatricality.

0101	Sarah Benharrech W 4:30pm - 7:15pm	Seats (Total: 10) JMZ 2207

FREN699W **Seminar; A Literary History of the French-Speaking Caribbean**

Credits: 3 Grading Method: Regular, Audit

Topic to be determined each semester.

Focus is placed on 20th-21st century Caribbean literature. Students will focus on the socio-political, cultural and psychological themes prevalent in literature in French by authors from Guadeloupe, Haiti, and Martinique. Particular attention will be paid to how these writers have used the events of their eras to conceptualize and build a history of Caribbean literature that has sustained an enriching dialogue among the islands of the West Indies, France, and the Caribbean diaspora.

0101	Valerie Orlando	Seats (Total: 10)
	Th 4:30pm - 7:15pm	JMZ 3205

FREN798 **Master's Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

FREN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

FREN889 **Doctoral Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

FREN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

FREN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEMS100 Freshman Honors Colloquium: Introduction to Gemstone

Credits: 1 Grading Method: Regular

Restriction: Freshman standing; and must be in the Gemstone program.

Orienting new Gemstone students to the university and to the program through a variety of team building activities, resources, and skill exploration exercises. Students will also examine and discuss areas such as liberal education, diversity, service, arts, current events, academic integrity, and leadership style.

These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin Tu 9:00am - 10:15am	Seats (Total: 10) ELL 0100A
0102	Leah Kreimer Tobin Tu 12:15pm - 1:30pm	Seats (Total: 10) ELL 0100A
0103	Leah Kreimer Tobin Tu 4:45pm - 6:00pm	Seats (Total: 10) ELL 0100D
0104	Leah Kreimer Tobin W 12:30pm - 1:45pm	Seats (Total: 10) ELL 0100A
0105	Leah Kreimer Tobin W 2:00pm - 3:15pm	Seats (Total: 10) ELL 0100D
0106	Leah Kreimer Tobin W 3:30pm - 4:45pm	Seats (Total: 10) ELL 0100A
0107	Leah Kreimer Tobin W 4:45pm - 6:00pm	Seats (Total: 10) ELL 0100D
0108	Leah Kreimer Tobin Th 10:30am - 11:45am	Seats (Total: 10) ELL 0100A
0109	Leah Kreimer Tobin Th 4:00pm - 5:15pm	Seats (Total: 10) ELL 0100A
0110	Leah Kreimer Tobin Th 4:30pm - 5:45pm	Seats (Total: 10) ELL 0100B

0111	Leah Kreimer Tobin Th 5:00pm - 6:15pm	Seats (Total: 10) ELL 0100D
0112	Leah Kreimer Tobin F 9:00am - 10:15am	Seats (Total: 10) ELL 0100A
0113	Leah Kreimer Tobin F 11:15am - 12:30pm	Seats (Total: 10) ELL 0100A
0114	Leah Kreimer Tobin F 1:30pm - 2:45pm	Seats (Total: 10) ELL 0100A

GEMS202 **Team Dynamics and Research Methodology**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS296. Restriction: Must be in the Gemstone program; and sophomore standing or higher.

This experiential course is designed to foster an understanding of effective team dynamics and basic research methodology. It will teach skills applicable to Gemstone team research and the writing of a team thesis. Upperclass Gemstone students serve as discussion facilitators. Students participate in their Gemstone teams and develop a draft of their team thesis proposal.

0101	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0102	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0103	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0104	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0105	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202

0106	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0107	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0108	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0109	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0110	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0111	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202
0112	Kristan Skendall Tu 4:30pm - 6:00pm Contact instructor or department for details.	Seats (Total: 14) EGR 1202

GEMS208A **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: First Time Section Leader**

Credits: 1-3 Grading Method: Regular

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Kristan Skendall Contact instructor or department for details.	Seats (Total: 15)

GEMS208B **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: Returner Section Leader**

Credits: 1-3 Grading Method: Regular

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Kristan Skendall Contact instructor or department for details.	Seats (Total: 15)

GEMS208C **Special Topics in Leadership and Team Development; Introduction to Gemstone: First Time Section Leader**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 15)
0102	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 15)
0103	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 15)

GEMS208D **Special Topics in Leadership and Team Development; Introduction to Gemstone: Returner Section Leader**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

0101	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 15)
0102	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 15)
0103	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 15)

GEMS208E **Special Topics in Leadership and Team Development; GEMS Connect**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restriction: Must be in the Gemstone program.

0101	Leah Kreimer Tobin Contact instructor or department for details.	Seats (Total: 16)

GEMS208L **Special Topics in Leadership and Team Development; GEMS GSC Executive Board**

Credits: 1-3 Grading Method: Regular, Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Jessica Lee Contact instructor or department for details.	Seats (Total: 6)

GEMS296 **Team Project Seminar I**

Credits: 1 Grading Method: Regular

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS202. Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the first of six seminars during which Gemstone students carry out multidisciplinary research with the guidance of a faculty mentor. The teams develop their working relationship, start their literature search, define their research question, and set short & long term goals.

0101	Anil Deane TuTh 6:30pm - 7:30pm	Seats (Total: 14) Location: TBA
0102	Steven Hutcheson Tu 6:00pm - 6:50pm	Seats (Total: 14) MCB 2119
0103	David Zajic W 6:00pm - 6:50pm	Seats (Total: 14) Location: TBA
0104	William Bentley Tu 6:00pm - 6:50pm W 9:00pm - 9:50pm	Seats (Total: 14) Location: TBA Location: TBA
0105	Nam Sun Wang Contact instructor or department for details.	Seats (Total: 14)
0106	Andrew Ristvey, Steven Cohan Tu 6:00pm - 6:50pm Th 5:30pm - 6:30pm	Seats (Total: 14) PLS 1180 PLS 2107
0107	Bryan Quinn W 5:00pm - 5:50pm	Seats (Total: 14) AVW 1318
0108	Ben Woodard Contact instructor or department for details.	Seats (Total: 14)
0109	Steven Jay Tu 6:00pm - 6:50pm Th 5:30pm - 6:20pm	Seats (Total: 14) MTH 0307 CHE 2116
0110	Debabrata Biswas Contact instructor or department for details.	Seats (Total: 14)
0111	Mark Fuge M 8:00am - 8:50am Tu 6:00pm - 6:50pm	Seats (Total: 14) ELL 0100A MTH 0411

0112	Yanjin Zhang W 5:30pm - 6:30pm Th 7:00pm - 7:50pm	Seats (Total: 14) PLS 1172 JMZ 1117
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS297 **Team Project Seminar II**

Credits: 2-3 Grading Method: Regular

Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the second of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team develops its website, prepares and presents its research proposal and beegins its research project.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 12)

GEMS396 **Team Project Seminar III**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS297. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the third of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team presents its progress at the Gemstone Colloquia.

0101	Joseph Sullivan M 6:30pm - 7:30pm M 7:30pm - 8:30pm	Seats (Total: 14) PLS 1172 PLS 1172
0102	Jon Hoffman Tu 5:00pm - 7:00pm	Seats (Total: 14) Location: TBA
0103	Ricardo Araneda M 5:10pm - 6:00pm M 6:00pm - 6:50pm	Seats (Total: 14) BRB 1210 BPS 1232
0104	Jose Aranda-Espinoza Tu 7:00pm - 7:50pm W 8:00am - 8:50am	Seats (Total: 14) BPS 1232 KEB 1200

0105	Romel Gomez Tu 6:00pm - 6:50pm W 9:30pm - 10:30pm	Seats (Total: 14) Location: TBA Location: TBA
0106	Susan Dwyer Tu 8:00pm - 8:50pm F 8:30am - 9:30am	Seats (Total: 14) JMZ 3205 JMZ 3205
0107	Volker Briken M 6:00pm - 6:50pm W 5:30pm - 6:30pm	Seats (Total: 14) MCB 2119 Location: TBA
0108	Liangbing Hu Tu 7:00pm - 7:50pm Th 8:00pm - 8:50pm	Seats (Total: 14) EGR 1202 JMZ 0205
0109	Bao Yang M 6:00pm - 6:50pm W 6:10pm - 7:10pm	Seats (Total: 14) Location: TBA ELL 0100B
0110	Anil Deane Tu 6:30pm - 7:30pm Th 7:00pm - 7:50pm	Seats (Total: 14) Location: TBA JMZ 1123
0111	Matthew Roesch Th 8:30am - 9:20am Tu 7:00am - 7:50am	Seats (Total: 14) BPS 1232 BPS 1232
0112	Adam Hsieh W 2:00pm - 2:50pm M 6:00pm - 6:50pm	Seats (Total: 14) CHE 2116 TYD 2110
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS397 **Team Project Seminar IV**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the fourth of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team further develops its website. Also they will prepare and present the team project in the poster session of Undergraduate Research Day.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 12)

GEMS496 **Project Writing Seminar**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS397. Restriction: Must be in the Gemstone program.

This is the fifth of six seminars during which Gemstone students carry out research with the guidance of a faculty mentor. The team finishes the analysis of their data and writes and edits its team thesis.

0101	Thomas Castonguay W 7:00pm - 7:50pm F 3:00pm - 3:50pm	Seats (Total: 14) SQH 2120 SQH 1101
0102	Zhengguo Xiao Contact instructor or department for details.	Seats (Total: 14)
0103	Kara Duffy M 7:00pm - 7:50pm Th 6:30pm - 7:20pm	Seats (Total: 14) SQH 2120 SQH 2120
0104	Robert Newcomb Tu 8:30am - 9:20am Th 8:30am - 9:20am	Seats (Total: 14) CSI 2118 KEY 0116
0105	Jonathan Dinman Tu 5:30pm - 6:30pm M 8:00pm - 8:50pm	Seats (Total: 14) Location: TBA Location: TBA
0106	Silvia Muro W 7:00pm - 7:50pm F 2:00pm - 2:50pm	Seats (Total: 14) Location: TBA Location: TBA
0107	Marcio Oliveira F 2:00pm - 2:50pm F 3:30pm - 4:30pm	Seats (Total: 14) Location: TBA CSS 2416

0108	Richard Yi Th 5:00pm - 5:50pm M 7:30pm - 8:30pm	Seats (Total: 14) Location: TBA Location: TBA
0109	Ramani Duraiswami M 6:15pm - 7:15pm Th 4:15pm - 5:15pm	Seats (Total: 14) AVW 3450 AVW 3450
0110	Steven Anlage M 5:30pm - 6:30pm F 2:00pm - 2:50pm	Seats (Total: 14) PLS 1158 EGR 1102
0111	Thomas Miller M 5:30pm - 6:30pm W 5:30pm - 6:30pm	Seats (Total: 14) ELL 0100B PLS 1146
0112	Aravind Srinivasan F 3:30pm - 4:30pm Tu 5:00pm - 5:50pm	Seats (Total: 14) Location: TBA Location: TBA
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 3)

GEMS497 **Team Thesis Defense**

Credits: 2 Grading Method: Regular General Education: DSSP

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program.

Gemstone teams will complete the team research project and thesis. The team will formally present the thesis to experts in the area of interest at a Team Thesis Conference before final submission.

0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 12)

GEOG Geographical Sciences Fall 2015

GEOG110 **The World Today: Global Perspectives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

FC01	Rachel Berndtson TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 50) TYD 2111	

GEOG130 **Developing Countries**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DSSP

An introduction to the geographic characteristics of the development problems and prospects of developing countries. Spatial distribution of poverty, employment, migration and urban growth, agricultural productivity, rural development, policies and international trade. Portraits of selected developing countries.

0201	Ronald Luna MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 21) LEF 2205 LEF 1201	Discussion
0202	Ronald Luna MW 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 21) LEF 2205 LEF 1220	Discussion
0203	Ronald Luna MW 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 21) LEF 2205 JUL 1105	Discussion
0204	Ronald Luna MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 21) LEF 2205 KEY 0119	Discussion
0205	Ronald Luna MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 21) LEF 2205 HBK 1108	Discussion
0206	Ronald Luna MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 21) LEF 2205 HBK 0109	Discussion

0207	Ronald Luna MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 24) LEF 2205 SQH 1101	Discussion
0208	Ronald Luna MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 24) LEF 2205 MMH 3419	Discussion
0209	Ronald Luna MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 24) LEF 2205 KEY 0116	Discussion
0210	Ronald Luna MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 24) LEF 2205 VMH 1107	Discussion
FC01	Ronald Luna TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 69) MMH 1400	

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common i this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

0101	Keith Yearwood MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 25) ARC 0204 EDU 3236	Discussion
0102	Keith Yearwood MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) ARC 0204 LEF 1201	Discussion

0103	Keith Yearwood MW 12:00pm - 12:50pm Th 11:00am - 11:50am	Seats (Total: 25) ARC 0204 ASY 3219	Discussion
0104	Keith Yearwood MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) ARC 0204 KEY 0119	Discussion
0105	Keith Yearwood MW 12:00pm - 12:50pm Th 9:30am - 10:20am	Seats (Total: 25) ARC 0204 EGR 1102	Discussion
0106	Keith Yearwood MW 12:00pm - 12:50pm Th 9:30am - 10:20am	Seats (Total: 25) ARC 0204 LEF 1222	Discussion
FC01	Keith Yearwood MW 6:00pm - 7:15pm	Seats (Total: 55) TYD 2109	

GEOG170 **Introduction to Methods of Geospatial Intelligence and Analysis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: DSNS

Introduction to technical methods used in gathering, analyzing, and presenting geospatial information, addressing the needs of geospatial analysis, such as environmental monitoring, situational awareness, disaster management, and human systems. Topics include basics of locational reference systems, map projections, satellite and airborne remote sensing, global positioning systems, geographic information systems, cartography, and introductory statistics and probability. The course is a gateway to more advanced technical classes in geoinformatics.

0101	Ruibo Han MW 4:00pm - 5:15pm	Seats (Total: 240) LEF 2205

GEOG201 **Geography of Environmental Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with GEOG211)

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

0101	Keith Yearwood TuTh 12:30pm - 1:45pm	Seats (Total: 240) LEF 2205	

GEOG211 **Geography of Environmental Systems Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

This is a 2 hr, 1 credit lab which parallels GEOG 201; Required for GEOG majors; optional for non-majors. Students must pay a $40.00 laboratory materials fee.

0101	Nayoung Jo M 9:00am - 11:00am	Seats (Total: 24) LEF 1136	Lab
0201	Nayoung Jo F 9:00am - 11:00am	Seats (Total: 24) LEF 1136	Lab
0301	Nayoung Jo M 11:00am - 1:00pm	Seats (Total: 24) LEF 1136	Lab
0401	Ashley Enrici Tu 9:00am - 11:00am	Seats (Total: 24) LEF 1136	Lab
0501	Ana Sanchez-Rivera W 9:00am - 11:00am	Seats (Total: 24) LEF 1136	Lab
0601	Nayoung Jo M 9:00am - 11:00am	Seats (Total: 24) LEF 1138	Lab
0701	Kanna Siripurapu M 11:00am - 1:00pm	Seats (Total: 24) LEF 1138	Lab
0801	Ashley Enrici Tu 9:00am - 11:00am	Seats (Total: 24) LEF 1138	Lab
0901	Ashley Enrici Tu 11:00am - 1:00pm	Seats (Total: 24) LEF 1136	Lab

1001	Ashley Enrici	Seats (Total: 24)	
	M 1:00pm - 3:00pm	LEF 1136	Lab

GEOG212 **Introduction to Human Geography Laboratory**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOG202. Restriction: Must be in Geography program.

Introduction to the basic methods and techniques employed in human geography.

0101	Amanda Hall	Seats (Total: 30)	
	M 9:00am - 11:00am	TYD 2102	Lab

GEOG306 **Introduction to Quantitative Methods for the Geographic Environmental Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

This course has a $40 lab fee.

0101	Naijun Zhou	Seats (Total: 22)	
	M 10:00am - 12:00pm W 1:00pm - 3:00pm	LEF 1124 LEF 1136	Lab
0102	Naijun Zhou	Seats (Total: 22)	
	M 10:00am - 12:00pm M 1:00pm - 3:00pm	LEF 1124 LEF 1138	Lab

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

0101	Rachel Berndtson TuTh 12:30pm - 1:20pm F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 KEY 0126	Discussion
0102	Rachel Berndtson TuTh 12:30pm - 1:20pm F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 LEF 1220	Discussion
0103	Rachel Berndtson TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 WDS 1130	Discussion
0104	Rachel Berndtson TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 LEF 1222	Discussion
0105	Rachel Berndtson TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 22) TYD 0130 LEF 1221	Discussion
0106	Rachel Berndtson TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 EDU 2102	Discussion

GEOG332 **Economic Geography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG203, GEOG303, or GEOG332. Formerly: GEOG303.

Principles of managing scarce resources in a world where everyone faces tradeoffs across both time and space. Focuses on the relationship between globalization processes and changing patterns of locational advantages, production, trade, population, socioeconomic and environmental grace and sustainability.

0101	Julie Silva TuTh 4:00pm - 4:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 JMZ 1120	Discussion
0102	Julie Silva TuTh 4:00pm - 4:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 CHM 0124	Discussion
0103	Julie Silva TuTh 4:00pm - 4:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 SQH 1107	Discussion
0104	Julie Silva TuTh 4:00pm - 4:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 SQH 1101	Discussion

GEOG333 **The Social Geography of Metropolitan Areas in Global Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department; or (GEOG201 and GEOG202). Credit only granted for: GEOG456 or GEOG333. Formerly: GEOG456.

A socio-spatial approach to human interaction within the urban environments: ways people perceive, define, behave in, and structure world cities and metropolitan areas. Cultural and social differences define spatial patterns of social activities which further define distinctions in distribution and interaction of people and their social institutions.

0101	Mila Zlatic MW 3:15pm - 4:45pm	Seats (Total: 100) TYD 0117	

GEOG372 **Remote Sensing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Principles of remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

There is a $40.00 lab fee for this course.

0101	Petr Potapov MW 9:00am - 9:50am W 11:00am - 1:00pm	Seats (Total: 22) LEF 1124 LEF 1138	 Lab
0102	Petr Potapov MW 9:00am - 9:50am W 1:00pm - 3:00pm	Seats (Total: 22) LEF 1124 LEF 1138	 Lab

GEOG373 **Geographic Information Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

Students must pay a $40.00 laboratory materials fee.

0101	Naijun Zhou Tu 12:30pm - 2:30pm Th 1:00pm - 3:00pm	Seats (Total: 22) LEF 2166 LEF 1138	 Lab
0102	Naijun Zhou Tu 12:30pm - 2:30pm W 9:00am - 11:00am *For GEOG majors only.*	Seats (Total: 22) LEF 2166 LEF 1138	 Lab
0103	Naijun Zhou Tu 12:30pm - 2:30pm Th 9:00am - 11:00am	Seats (Total: 22) LEF 2166 LEF 1138	 Lab

GEOG384 **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 15)
	Contact instructor or department for details.	

GEOG384H **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 1)
	Contact instructor or department for details.	

GEOG385 **Internship in Geography II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG385H **Internship in Geography II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 1)
	Contact instructor or department for details.	

GEOG396 **Honors Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-Geography department; and senior standing or higher; and must be in Geography program. Formerly: GEOG397.

First course in the departmental honors sequence. Student development o a potential research topic under the guidance of a faculty advisor, culminating in a written and oral presentation of a research proposal.

0101	Instructor: TBA	Seats (Total: 15)
	Contact instructor or department for details.	

GEOG397 **Honors Thesis**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG396. Restriction: Must be in Geography program; and senior standing or higher. Formerly: GEOG399.

Second course in the departmental honors sequence. Student research under the auspices of a faculty advisor, culminating in a research paper to be defended orally before the geography honors committee.

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

GEOG398 **Special Topics in Geography**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Contact department for information to register for this course.

GEOG398H **Special Topics in Geography**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

An introductory course dealing with special topics in geography.

0101	Keith Yearwood	Seats (Total: 1)
	Contact instructor or department for details.	

GEOG416 **Conceptualizing and Modeling Human-Environmental Interactions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG306, STAT100, or MATH111; and (GEOG201 and GEOG202); and (GEOG331 or GEOG330). Corequisite: MATH130, MATH140, or MATH220. Credit only granted for: GEOG416 or GEOG498N. Formerly: GEOG498N.

Develops skills to carry out research that integrates environmental and economic aspects of sustainability by introducing extensively used quantitative tools for analyzing human-environmental interactions in the field of ecological economics. These include, e.g., index number calculations and decomposition analysis, Environmental Kuznets Curve (EKC), environmental input-output analysis and life-cycle analysis, and multi-criteria decisions aid (MCDA). Students will need laptops to run models during class.

This course has a $40 lab fee.

0101	Tetsuji Tanaka	Seats (Total: 22)
	W 11:00am - 1:30pm	LEF 1124

GEOG422 **Changing Geographies of Sub-Saharan Africa**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG202; and (GEOG335 or GEOG333). Recommended: GEOG130 or GEOG110. Credit only granted for: GEOG328C, GEOG422. Formerly: GEOG328C.

Students will develop an understanding of the geographic contexts of SubSaharan Africa, including an overview of the physical, bioclimatic, historical, cultural, political, demographic, health and economic geographies of Sub-Saharan Africa. Students will fill in the map of Africa by studying the spatial distribution within each of these geographic domains. In addition to an overview of geography South of the Sahara, the Congo will be taken as a more intensive case study through additional readings, lectures and discussions.

0101	Julie Silva	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	LEF 1124

GEOG423 **Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201 and GEOG202; and (GEOG332, GEOG435, or GEOG333). Recommended: GEOG130 and GEOG110. Credit only granted for: GEOG313 or GEOG423. Formerly: GEOG313.

A geography of Latin America and the Caribbean in the contemporary world: political and cultural regions, population and natural resource distribution, economic and social development, poverty, crime, urbanization, migration trends, and natural disasters.

0101	Ronald Luna	Seats (Total: 25)
	MW 11:00am - 12:15pm	TYD 2110

GEOG431 **Culture and Natural Resource Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG421 or GEOG431. Formerly: GEOG421.

Basic issues concerning the natural history of humans from the perspective of the geographer. Basic components of selected behavioral and natural systems, their evolution and adaptation, and survival strategies.

0101	John Kleman	Seats (Total: 30)
	TuTh 9:30am - 10:45am	LEF 1124

GEOG432 **Spatial Econometrics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG202; and GEOG306; and GEOG332. Also offered as: GEOG732. Credit only granted for: GEOG498E, GEOG432, GEOG788E, GEOG732. Formerly: GEOG498E.

An introduction to modern econometric techniques in general and spatial econometrics in particular, using the popular open source statistical computer language R. A focus on using statistical computing to produce analytical reports for real-world applications, research papers, and dissertations.

0101	Laixiang Sun	Seats (Total: 15)
	Th 2:00pm - 4:30pm	LEF 1171

GEOG442 **Biogeography and Environmental Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG342; or students who have taken courses with comparable content may contact the department. Recommended: GEOG123. Credit only granted for: GEOG442, GEOG447, or GEOG484. Formerly: GEOG447.

Biogeographical topics of global significance, including a consideratio of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, climate and vegetation, global carbon cycle, biodiversity, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System.

0101	George Hurtt	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	LEF 2208	

GEOG472 **Remote Sensing: Digital Processing and Analysis**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG372 and GEOG306; or students who have taken courses with comparable content may contact the department. Credit only granted for: GEOG472 or GEOG480. Formerly: GEOG480.

Digital image processing and analysis applied to satellite and aircraft land remote sensing data. Consideration is given to preprocessing steps including calibration and geo registration. Analysis methods include digital image exploration, feature extraction thematic classification, change detection, and biophysical characterization. One or more application examples may be reviewed.

Students must pay a $40.00 laboratory materials fee.

0101	Matthew Hansen	Seats (Total: 22)	
	W 2:30pm - 4:30pm	LEF 1124	
	Th 9:00am - 11:00am	LEF 1136	Lab

GEOG475 **Computer Cartography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG373 and GEOG306. Credit only granted for: GEOG471 or GEOG475. Formerly: GEOG471.

Advanced skills of computer mapping using more sophisticated software packages. Map projection evaluation and selection, coordinate system conversion, techniques of quantitative thematic mapping, map design and generalization, hypermedia and animated cartography. Emphasis on designing and making cartographically sound sophisticated thematic maps.

This course has a $40 lab fee.

0101	Naijun Zhou	Seats (Total: 22)	
	Tu 3:00pm - 5:00pm	LEF 2166	
	Th 11:00am - 1:00pm	LEF 1138	Lab

0102	Naijun Zhou	Seats (Total: 25)	
	Tu 3:00pm - 5:00pm F 9:00am - 11:00am	LEF 2166 LEF 1138	Lab

GEOG498 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG498H **Topical Investigations; China Honors Seminar**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

0101	Mila Zlatic	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG601 **The Nature and Practice of Science**

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG601 or GEOG788N. Formerly: GEOG788N.

Introduces students to the nature and practice of science in physical and human geography, including practical methods for research productivity, professional, societal and ethical obligations of scientists, the philosophy of science, and the scientific literature. Students will prepare and critically evaluate research proposals.

0101	Klaus Hubacek	Seats (Total: 25)
	M 2:00pm - 4:30pm	LEF 1124

GEOG603 **Masters Research Tutorial**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG608 **Comprehensive Portfolio Assessment Summary**

Credits: 1-3 Grading Method: Sat-Fail

Evaluation of a PhD student's portfolio.

Contact department for information to register for this course.

GEOG642 **Ecosystem Processes and Human Habitability**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG442; or permission of BSOS-Geography department. Formerly: GEOG788C.

Biological and biogeographical processes relevant to the capability of the earth's biota to support the demands of its human populations.

0101	George Hurtt	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	LEF 2208

GEOG650 **MOBILE GIS**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG657. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course covers how to create, test, and publish mobile GIS applications that work across multiple platforms (Android, iOS, and Black Berry Tablet OS) and adapt to a smartphone or tablet display.

Contact department for information to register for this course.

GEOG651 **Spatial Statistics**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG615; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course is about quantitative analysis of spatial data. It is intended to provide a broad survey of various methods of exploratory statistical data analysis most useful in environmental and social sciences. The course is a mix of theory, methods, and applications geared towards helping students: (1) develop an understanding of the important theoretical concepts in spatial data analysis; and (2) gain practical experience in application of spatial statistics to a variety of social and environmental problems using advanced statistical software.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG653 **Spatial Analysis**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG579 or GEOG506; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.

Methods of spatial analysis including measuring aspects of geometric features and identifying spatial patterns of geospatial objects that are represented as point, line, network, areal data, and 3-D surfaces.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG654 **GIS and Spatial Modeling**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

Provide foundations and understanding on various issues related to modeling and simulation in GIS context. It will addresses the concepts, tools, and techniques of GIS modeling, and presents modeling concepts and theory as well as provides opportunities for hands-on model design, construction, and application. The focus will be on raster-based modeling. This course is also application-orientated, particularly in these fields such as terrain modeling, LULC modeling, hydrological modeling, suitability modeling, etc.

Students must pay a $40.00 lab fee.

Contact department for information to register for this course.

GEOG671 **Remote Sensing Instruments and Observtions**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOG472; or students who have taken courses with comparable content may contact the department; or permission of BSOS-Geography department.

Detailed examination of land remote sensing instruments, observatories and resultant measurements in the optical portion of the EM spectrum. Includes computer-based exercises that examine the importance of data geo-registration and radiometric calibration in land measurements.

This course has a $40 lab fee.

0101	Tatiana Loboda	Seats (Total: 15)
	W 1:00pm - 3:30pm	LEF 1171

GEOG732 **Spatial Econometrics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG306; and GEOG202; and GEOG332. Also offered as: GEOG432. Credit only granted for: GEOG498E, GEOG432, GEOG788E, GEOG732. Formerly: GEOG498E, GEOG788E.

An introduction to modern econometric techniques in general and spatial econometrics in particular, using the popular open source statistical computer language R. A focus on using statistical computing to produce analytical reports for real-world applications, research papers, and dissertations.

0101	Laixiang Sun	Seats (Total: 15)
	Th 2:00pm - 4:30pm	LEF 1171

GEOG788 **Selected Topics in Geography**

(Perm req)

Credits: 1-3 Grading Method: Regular

Readings and discussion on selected topics in the field of geography.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG788J **Selected Topics in Geography; Deforestation, Land Grab, and Global Commodity Chain**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

0101	Kuishuang Feng	Seats (Total: 20)
	Tu 2:00pm - 4:30pm	LEF 1124

GEOG789 **Independent Readings**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG790 **Internship in Geography**

Credits: 3 Grading Method: Regular, Audit

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department for information to register for this course.

GEOG792 **Teaching Assistant Seminar**

Credits: 1 Grading Method: Sat-Fail

GEOG 792 - Guidance and instruction for incoming and future teaching assistants.

0101	Keith Yearwood	Seats (Total: 10)
	Contact instructor or department for details.	

GEOG797 **Professional Project**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG795; and must have completed or be concurrently enrolled in ENCE662. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program.

Data and materials can originate from an internship (internal or external) or from relevant work experience with current employer. Under direction of faculty advisor, students will prepare a project report containing explanation of the requirements for the work, technical account of the activities undertaken, including literature review, description of methods and approaches taken, a critical discussion of results, along with conclusions and recommendations developed from the project. Final project will consist of a full-fledged GIS application that is up and running and can be tested, providing potential employers with a portfolio demonstrating student's ability to manage and develop a GIS application in real world situations.

Contact department for information to register for this course.

GEOG798 **Selected Topics in Geography: Seminar Series; Departmental Seminar**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Readings and discussions on selected topics in the field of geography.

0101	Rachel Berndtson Th 3:30pm - 5:00pm	Seats (Total: 50) LEF 1124

GEOG799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOG898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEOL Geology Fall 2015

GEOL100 **Physical Geology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL (if taken with GEOL110)

Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.

A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.

0101	Tracey Centorbi MWF 1:00pm - 1:50pm	Seats (Total: 99) CSS 2324
0201	William McDonough TuTh 3:30pm - 4:45pm	Seats (Total: 99) CSS 2324

GEOL104 **Dinosaurs: A Natural History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Dinosaurs, their evolution, and our understanding of their fossil record. Students will examine the geologic record and the tools used by paleontologists to determine: geologic ages and ancient environments; evolutionary history and extinctions; dinosaurian biology and behavior; and their survival as birds. Mechanisms of global change ranging from plate tectonics to asteroid impact will be discussed.

0101	Thomas Holtz MWF 10:00am - 10:50am	Seats (Total: 60) PLS 1130	
FCH1	Thomas Holtz Class time/details on ELMs Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) ONLINE TWS 1100	Discussion

GEOL110 Physical Geology Laboratory

Credits: 1 | Grading Method: Regular, Pass-Fail

Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.

The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.

Students must pay a $50.00 laboratory materials fee.

0101	Hailong Bai, Alan Kaufman Th 12:00pm - 3:00pm	Seats (Total: 20) GEO 2106	Lab
0102	Carolyn Plank, Alan Kaufman M 12:00pm - 3:00pm	Seats (Total: 20) GEO 2106	Lab
0103	Alan Kaufman, Hailong Bai Tu 12:00pm - 3:00pm	Seats (Total: 20) GEO 2106	Lab
0104	Alex Lopatka, Alan Kaufman Tu 3:00pm - 6:00pm	Seats (Total: 20) GEO 2106	Lab
0106	Alan Kaufman, Anthony Mautino W 9:00am - 12:00pm	Seats (Total: 20) GEO 2106	Lab

0107	Alan Kaufman, Anthony Mautino W 3:00pm - 6:00pm	Seats (Total: 20) GEO 2106	Lab
0109	Alex Lopatka, Alan Kaufman Tu 9:00am - 12:00pm	Seats (Total: 20) GEO 2106	Lab

GEOL120 Environmental Geology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Credit only granted for: GEOL100 or GEOL120.

A review of geologic factors underlying many environmental problems and the interactions between population and physical environment: geologic hazards, land-use planning, conservation, mineral resources, waste disposal, land reclamation, and the geologic aspects of health and disease. The course is aimed at lower division students in education and liberal arts, and should be useful to any student concerned with geologic perspectives of environmental problems.

0101	Tracey Centorbi TuTh 12:30pm - 1:45pm M 3:00pm - 3:50pm	Seats (Total: 20) TYD 2111 PLS 1168	Discussion
0102	Tracey Centorbi TuTh 12:30pm - 1:45pm M 4:00pm - 4:50pm	Seats (Total: 20) TYD 2111 PLS 1168	Discussion
0103	Tracey Centorbi TuTh 12:30pm - 1:45pm M 5:00pm - 5:50pm	Seats (Total: 20) TYD 2111 PLS 1168	Discussion
FC01	Tracey Centorbi TuTh 4:30pm - 5:45pm F 9:00am - 9:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3203 PLS 1162	Discussion
FC02	Tracey Centorbi TuTh 4:30pm - 5:45pm F 10:00am - 10:50am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3203 PLS 1162	Discussion

GEOL123 Causes and Consequences of Global Change

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

Also offered as: AOSC123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

0101	Derrick Lampkin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 32) JMP 2202 CSS 2416	Discussion
AM01	Derrick Lampkin MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 5) JMP 2202 CSS 2416	Discussion

GEOL124 **Evolution of Life and Environment on Planet Earth**

(Perm req)

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

An exploration of how life has shaped Earth's physical environments, both in the contemporary Earth and over the long course of Earth history. Topics range from evidence for the origin and diversification of life and its impact on Earth environments to the mind-set and methods of the scientists who interpret it, and what those methods tell us about future interactions between life and the environment, both on Earth and in the Solar System.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Alan Kaufman TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm *Restricted to students in the new Carillon Once and Future Planet livin learning community.*	Seats (Total: 20) SHM 2102 PLS 1164	Discussion
0102	Alan Kaufman TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm *Restricted to students in the new Carillon Once and Future Planet livin learning community.*	Seats (Total: 20) SHM 2102 PLS 1164	Discussion

GEOL200 **Earth's Fury: Earthquakes, Volcanoes, and Tsunami**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

Earthquakes, volcanic eruptions, and tsunami frequently remind us of th dangers associated with living on a constantly changing planet. How do people prepare for these rare but dramatic events? Student will study the science behind earthquakes and volcanoes, how it guides monitoring, forecasting, prevention, and response, and the cultural and ethical aspects of these events.

0101	Laurent Montesi TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 20) JMZ 0220 PLS 1168	Discussion
0102	Laurent Montesi TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 20) JMZ 0220 PLS 1168	Discussion
0103	Laurent Montesi TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 20) JMZ 0220 PLS 1168	Discussion
0104	Laurent Montesi TuTh 9:30am - 10:45am W 3:00pm - 3:50pm	Seats (Total: 20) JMZ 0220 PLS 1184	Discussion
0105	Laurent Montesi TuTh 9:30am - 10:45am W 4:00pm - 4:50pm	Seats (Total: 20) JMZ 0220 PLS 1184	Discussion
0106	Laurent Montesi TuTh 9:30am - 10:45am W 5:00pm - 5:50pm	Seats (Total: 20) JMZ 0220 PLS 1184	Discussion

GEOL212 **Planetary Geology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Credit only granted for: ASTR330 or GEOL212.

An examination of the geologic and geochemical processes at work in the solar system from the perspectives supplied by space age exploration of the planets and other solar system bodies.

0101	John Merck MWF 9:00am - 9:50am	Seats (Total: 24) PLS 1115	

GEOL375 **Introduction to the Blue Ocean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140. Recommended: MATH141, PHYS161, or PHYS171. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC375. Credit only granted for: AOSC375, GEOL375 or METO375.

Introduction to physical, chemical, and biological properties of the ocean. Role of the ocean in climate as a component of the Earth system. El Nino and the ocean, impact of global warming on the ocean and marine habitats including fisheries.

0101	Corinne Hartin	Seats (Total: 23)
	MWF 10:00am - 10:50am	CSS 0201

GEOL393 **Geology Senior Thesis I: Proposal**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141 and MATH141. And CHEM131 and CHEM132; or (CHEM135 and CHEM136). And must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program; and non-degree-seeking students require the permission of the instructor.

The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.

0101	Philip Candela	Seats (Total: 10)
	W 4:00pm - 6:00pm Contact instructor or department for details.	PLS 1111

GEOL393H **Geology Senior Thesis I: Proposal**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141 and MATH141. And CHEM131 and CHEM132; or (CHEM135 and CHEM136). And must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program; and non-degree-seeking students require the permission of the instructor.

The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.

For honors students only.

0101	Philip Candela	Seats (Total: 5)
	W 4:00pm - 6:00pm Contact instructor or department for details.	PLS 1111

GEOL394 **Geology Senior Thesis II: Research**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses. Restriction: Must be in Geology program; and junior standing or higher; and in addition, non-degree-seeking students require the permission of the department.

The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.

Contact department for information to register for this course.

GEOL394H **Geology Senior Thesis II: Research**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses. Restriction: Must be in Geology program; and junior standing or higher; and in addition, non-degree-seeking students require the permission of the department.

The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.

For Geology department honors students only.

Contact department for information to register for this course.

GEOL412 **Geology of the Terrestrial Planets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL341 or GEOL340. Credit only granted for: GEOL489A or GEOL412. Formerly: GEOL489A.

Geological features of Mercury, Venus, Mars and the Moon with an emphasis on results from recent NASA planetary mission. Topics include interior structure, impact cratering, tectonic and volcanic history, surface conditions, climate change, and habitability.

0101	Laurent Montesi	Seats (Total: 10)	
	TuTh 12:30pm - 1:45pm	PLS 1164	

GEOL423 **Optical Mineralogy**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL100 or GEOL120; and GEOL110; and GEOL322. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

The optical behavior of crystals with emphasis on the theory and application of the petrographic microscope.

0101	Katherine Bermingham, Marion Le Voyer	Seats (Total: 17)	
	MWF 9:00am - 9:50am	HBK 0109	
	W 10:00am - 1:00pm	GEO 2117	Lab

GEOL444 **Low Temperature Geochemistry**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL322, GEOL100, and MATH115. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Non-degree-seeking students require the permission of the instructor.

Basic chemical principles, thermodynamics, and kinetics of low-temperature inorganic and organic geochemical reactions in a wide range of surface environments. These geochemical tools will be used to provide a context for understanding elemental cycling and climate change. Laboratories will include problem sets as well as wet chemical and mass spectrometric techniques used in low temperature geochemistry.

0101	James Farquhar	Seats (Total: 12)	
	TuTh 8:00am - 9:15am	PLS 1158	
	M 3:00pm - 6:00pm	CHM 1330	Lab

GEOL445 **High Temperature Geochemistry**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL322, GEOL100, and MATH115. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

Review of chemical principles and their use in understanding processes of Earth, and solar system formation and differentiation. Topics include nucleosynthesis and cosmochemical abundances of elements, bonding and element partitioning, equilibrium thermodynamics and phase stabilities, radiogenic isotopes and geochronology, kinetics, and diffusion.

0101	Roberta Rudnick	Seats (Total: 20)	
	TuTh 12:30pm - 1:45pm	PLS 1172	
	W 1:00pm - 4:00pm	GEO 2117	Lab

GEOL446 Geophysics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS141, MATH141, and MATH140; and (GEOL100 or GEOL120). Restriction: Non-degree-seeking students require the permission of the instructor.

An introduction to modern geophysics. Topics include: global plate tectonics, plate motion, triple junctions, geomagnetism, earthquakes and faulting, reflection and refraction seismology, gravity and isostasy, heat flow and mantle dynamics, deep interior of the Earth, geophysical observations and measurements.

0101	Wenlu Zhu	Seats (Total: 23)	
	TuTh 11:00am - 12:15pm	PLS 1172	

GEOL447 Observational Geophysics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH140 and MATH141; and (PHYS141, PHYS161, or PHYS171).

An introduction to practical signal processing, data analysis, and inverse theory in geophysics.

0101	Vedran Lekic	Seats (Total: 20)	
	TuTh 3:30pm - 4:45pm	PLS 1129	

GEOL451 Groundwater

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOL110 and MATH140; and (GEOL120 or GEOL100); and (CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103). Or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.

An introduction to the basic geologic parameters associated with the hydrologic cycle. Problems in the accumulation, distribution, and movement of groundwater will be analyzed.

0101	Wenlu Zhu	Seats (Total: 42)
	TuTh 2:00pm - 3:15pm	ARC 1105

GEOL452 **Watershed and Wetland Hydrology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.

Physical processes by which water moves in watershed and wetland systems. Topics include: precipitation, infiltration, flow in the unsaturated zone, streamflow generation processes, and groundwater flow.

0101	Karen Prestegaard	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	PLS 1130

GEOL453 **Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH220 or MATH140; and (CHEM131 or CHEM135); and (CHEM132 or CHEM136); and (GEOL100, GEOL120, or ENST200). Restriction: Junior standing or higher; and permission of instructor is required of non-degree-seeking students. Credit only granted for: GEOL453 or GEOL489L. Formerly: GEOL489L.

Overview of ecosystem functions across biomes/geologic settings, and considerations and tradeoffs in ecosystem restoration strategies. Specific case studies and discussions will be aimed at understanding how structure can influence biophysical and biogeochemical processes supporting ecosystems, and then describes how rates, timing, and location of physical, chemical, and ecosystem processes can be altered by different restoration strategies to enhance ecosystem services.

Also offered as MEES698E and GEOL789L.

0101	Sujay Kaushal	Seats (Total: 20)
	Tu 3:30pm - 6:30pm	BPS 1232

GEOL460 **Field Geophysics**

Credits: 4 Grading Method: Regular

Prerequisite: MATH140; and MATH141; and (PHYS141, PHYS161, or PHYS171); and GEOL446; and non-degree-seeking students require the permission of the instructor.

Students will become familiar with geophysical instrumentation used for both scientific and industrial applications. Students will be given an introduction to the use of geophysical instrumentation for data collection, processing, and analysis, design of field experiments for investigating field geophysical problems, and an introduction to the theory of instrument design and use. Instruments that will be covered include (but are not limited to): broadband seismometers, geophones, ground-penetrating radar, magnetotellurics, and Global Positioning Satellites.

0101	Nicholas Schmerr	Seats (Total: 15)
	M 10:00am - 1:20pm	CHM 1215

GEOL499 **Special Problems in Geology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Prerequisites: GEOL100 or GEO120, GEOL110, GEOL102; or equivalent; and permission of department. In addition, non-degree-seeking students require the permission of the instructor. Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

Contact department for information to register for this course.

GEOL612 **Geology and Geophysics of the Terrestrial Planets**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Geology department; or (GEOL446 and MATH141). Recommended: Familiarity with MATLAB or MATHEMATICA. Credit only granted for: GEOL680 or GEOL789A. Formerly: GEOL789A.

Geological features of Mercury, Venus, Mars and the Moon with an emphasis on results from recent NASA planetary mission. Class is organized to follow geological processes or observation throughout the inner solar system. Topics covered include interior structure, impact cratering, tectonic and volcanic history, surface conditions and climate change.

0101	Laurent Montesi	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	PLS 1164

GEOL647 **Observational Geophysics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH140, MATH141, and PHYS141; and (PHYS161 or PHYS171). Credit only granted for: GEOL789O or GEOL647. Formerly: GEOL789O.

Introduces graduate students to instrument design and performance, signal processing, data analysis and inverse theory in geophysics.

0101	Vedran Lekic	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	PLS 1129

GEOL650 **Isotope and Trace Element Geochemistry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOL443; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Trace elements and isotopes in geology, including modern applications in geochronology and petrogenesis.

0101	Richard Walker	Seats (Total: 15)
	TuTh 8:00am - 9:15am	PLS 1172

GEOL652 **Advanced Watershed and Wetland Hydrology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: GEOL452; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Physical and chemical processes in watershed and wetland systems: with an emphasis on redox reactions.

0101	Karen Prestegaard	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	PLS 1130

GEOL670 **Physical Oceanography**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC420, AOSC670. Credit only granted for: GEOL670, AOSC670 or AOSC420.

Ocean observations. Water masses, sources of deep water. Mass, heat, an salt transport, geochemical tracers. Western boundary currents, maintenance of the termocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.

0101	James Carton MW 3:15pm - 4:30pm	Seats (Total: 11) CSS 2416
AM01	James Carton MW 3:15pm - 4:30pm	Seats (Total: 2) CSS 2416

GEOL789L **Recent Advances in Geology; Special Topics in Marine-Estuarine-Environmental Sciences: Principles and Practices of Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Audit

Recent advances in geology research.

Also offered as MEES698E and GEOL453. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosystem services and habitat quality. Includesa semester research project.

0101	Sujay Kaushal Tu 3:30pm - 6:30pm	Seats (Total: 20) BPS 1232

GEOL798 **Seminar in Geology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOL899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GERM Germanic Studies Fall 2015

GERM103 **Intensive Elementary German**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM102; and must not be a fluent/native speaker of German. Credit only granted for: GERM102 or GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

BL02	Thomas Kluber MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 2122 ONLINE
BL03	Abigail Trozenski MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) JMZ 3120 ONLINE

GERM149Z **Germanic Languages - Elementary II; Elementary Yiddish II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Continuation of GERM148. May be repeated in a different language. Subtitle will reflect the language.

Also offered as JWST282. Credit will be granted for GERM149Z or JWST282.

0101	Adi Mahalel TuTh 12:30pm - 1:45pm	Seats (Total: 15) SQH 1123

GERM203 **Intensive Intermediate German**

Credits: 4 Grading Method: Regular CORE: HO

Prerequisite: GERM103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM201; and must not have completed GERM202; and must not be a fluent/native speaker of German. Credit only granted for: GERM202 or GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

BL02	Eileen Sellman	Seats (Total: 25)
	MWF 12:00pm - 12:50pm Class time/details on ELMs	JMZ 2120 ONLINE

GERM204 **German Grammar Review**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: GERM203; or Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of German.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Regina Ianozi	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 3205

GERM269A **Special Topics in Study Abroad II; Elementary German I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM269B **Special Topics in Study Abroad II; Elementary German II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM289G **Selected Topics in the Cultures of the Germanic Speaking Countries; Once Upon a Time: Fairy Tales of the Brothers Grimm**

Credits: 3 Grading Method: Regular General Education: DSHU

Topics in the cultures of the Germanic speaking countries.

Taught in English. Exploration of the magical and terrifying world of fairy tales within the German, European, and American cultural traditions. Topics addressed include politics and national identity, ethics and morality, education and pedagogy, language and identity to gender and sexuality in the establishment and regulation of social norms.

0101	Julie Koser	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 0103

GERM301 **Conversation and Composition I: Germany and Its People**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM204; or students who have taken courses with comparable content may contact the department.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts.

0101	Anja Ketterl	Seats (Total: 20)
	MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	JMZ 1103 Location: TBA

GERM302 **Conversation and Composition II: Current Topics in German Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

Contact department for information to register for this course.

GERM319G **Selected Topics in Germanic Language Studies; Seminar in German Language**

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

GERM322 **Highlights of German Literature II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Selected masterworks from different periods of German literature: Romanticism, Biedermeier, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.

Taught in German. Also offered as GERM322H.

0101	Julie Koser	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 2206

GERM322H **Highlights of German Literature II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Selected masterworks from different periods of German literature: Romanticism, Biedermeier, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.

Taught in German. Also offered as GERM322.

0101	Julie Koser	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 2206

GERM369C **Special Topics in Study Abroad III; German Composition I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369D **Special Topics in Study Abroad III; German Composition II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369K **Special Topics in Study Abroad III; Introduction to German Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369M **Special Topics in Study Abroad III; Europeans and the Middle East: War & Peace, Culture and Exchange, 1798-Present**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369P **Special Topics in Study Abroad III; Pop Culture: European-American Trends**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

GERM389F **Topics in Germanic Culture; Berlin: History, Memory, Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM389G **Topics in Germanic Culture; German American Cultural Contrasts**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM397H **Honors Reading (Independent Study)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Supervised reading to be taken normally only by students admitted into honors program.

Contact department for information to register for this course.

GERM399F **Selected Topics in Germanic Studies; The Human Condition and the Totalitarian Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

GERM399T **Selected Topics in Germanic Studies; Translation Practicum**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM301 Approaches to translation from German into English, primarily contemporary news articles; range of comparative analyses, from detailed linguistic to broadly cultural.

0101	Rose-Marie Oster	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 3203

GERM401 **Advanced Conversation: Germany within Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Development of fluency in spoken German. Discussion of contemporary issues related to Germany in context of Europe.

0101	Peter Beicken	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 3203

GERM411 **German for International Business I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced skills in German for international business, including understanding and writing correspondence, reports, graphics, ads, etc., according to current German commercial style.

Contact department for information to register for this course.

GERM439D **Selected Topics in German Literature; Drama and Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special study of an author, school, genre, or theme. Taught in German.

This course investigates select German dramas from the 18th through the 21st centuries (e.g., Goethe, Kleist, Buchner, Brecht, Fleisser, Bachmann , Strauss, Jelinek) and also deals with film adaptations of some of these plays.

0101	Peter Beicken	Seats (Total: 20)
	Tu 4:30pm - 7:15pm	JMZ 1117

GERM439J **Selected Topics in German Literature; Introduction to the History of the German Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special study of an author, school, genre, or theme. Taught in German.

Contact department for information to register for this course.

GERM439L **Selected Topics in German Literature; Methods of German Literary Studies I: Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special study of an author, school, genre, or theme. Taught in German.

History, methods and concepts of German literary studies. The teaching modules include a general introduction to "Germanistik," an in-depth discussion of literary theory and criticism, and the typology of genres.

0101	Elke Frederiksen	Seats (Total: 10)
	Th 4:30pm - 7:15pm	JMZ 2123

GERM463 **The World of the Viking Sagas**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An in-depth analysis of the Old Norse/Viking sagas of Medieval Scandinavia as literature historiography and folklore. Readings include Sagas of the Icelanders, Kings Sagas and Heroic/Mythical Sagas. Taught in English.

0101	Rose-Marie Oster	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	JMZ 0103

GERM499 **Directed Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM620 **Methods of German Literary Studies I: Theory**

Credits: 3 Grading Method: Regular, Audit

History, methods and concepts of German literary studies. The teaching modules include a general introduction to "Germanistik," an in-depth discussion of literary theory and criticism, and the typology of genres.

History, methods and concepts of German literary studies. The teaching modules include a general introduction to "Germanistik," an in-depth discussion of literary theory and criticism, and the typology of genres.

0101	Elke Frederiksen	Seats (Total: 10)
	Th 4:30pm - 7:15pm	JMZ 2123

GERM689D **Special Topics - M.A. Level; Drama and Film**

Credits: 3 Grading Method: Regular, Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

This course investigates select German dramas from the 18th through the 21st centuries (e.g., Goethe, Kleist, Buchner, Brecht, Fleisser, Bachmann, Strauss, Jelinek) and also deals with film adaptations of some of these plays.

0101	Peter Beicken	Seats (Total: 20)
	Tu 4:30pm - 7:15pm	JMZ 1117

GERM798 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM888 **Doctoral Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GERM898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GERM899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GREK Greek Fall 2015

GREK101 **Elementary Ancient Greek I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Restriction: A student who has had two units of Greek in high school may register for GREK101 for purposes of review but not for credit.

Study of basic grammar, development of reading facility, and introduction to Athenian life and culture in the fifth century B.C.

Classical and New Testament Greek.

0101	Madeleine Goh MW 10:00am - 10:50am F 9:00am - 10:50am	Seats (Total: 20) KEY 0103 EGR 1104

GREK111 **Elementary Modern Greek I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not be a native speaker of Greek. Credit only granted for: FOLA108G or GREK111. Formerly: FOLA108G.

An introduction to the language and culture of modern Greece. Students begin to acquire the basic tools of the language and to communicate, in simple everyday situations. This is the first of our two-semester sequence in Elementary Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 1120

GREK201 **Intermediate Ancient Greek**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GREK102; or students who have taken courses with comparable content may contact the department.

Advancing beyond the basic skills developed in GREK 101 and GREK 102; review of selected grammatical concepts; continuous reading of passages from Greek literature.

0101	Madeleine Goh	Seats (Total: 10)
	MWF 2:00pm - 2:50pm	MTH B0431
	M 1:00pm - 1:50pm	MTH B0429

GREK211 **Intermediate Modern Greek I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GREK112; or permission of instructor. Credit only granted for: FOLA118G or GREK211. Formerly: FOLA118G.

A continuation of the study of basic structures and the development of fluency in functional, spoken and written communication. This is the first of our two-semester sequence in Intermediate Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 15)
	MWF 10:00am - 10:50am	HBK 0123

GREK398 **Advanced Modern Greek**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Develops advanced communication skills in the modern Greek language: speaking, listening, reading, and writing.

0101	Polyvia Parara	Seats (Total: 10)
	MWF 11:00am - 11:50am	MMH 1218

GREK411 **Modern Greek Literature and History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Students must have earned a grade of C- or better in a 300-level Modern Greek course. Restriction: Permission of instructor. Credit only granted for: GREK311 or GREK411. Formerly: GREK311.

Students will study historical and political events in Greece during the 19th and 20th centuries through the viewpoint of the man of letters. Poetry, prose, plays, and essays reflect national emancipation, social reconstruction, and political struggles. Readings and discussion are in Modern Greek.

0101	Polyvia Parara	Seats (Total: 10)
	MW 1:00pm - 2:15pm	MMH 1218

GREK472 **History and Development of the Greek Language**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Mastery of ancient Greek through grammar review, prose composition, and analysis of historical developments in Greek writers' modes of expression.

0101	Jorge Bravo	Seats (Total: 10)
	W 5:00pm - 7:40pm	MMH 1218

GREK488B **Greek Readings; Intermediate Ancient Greek**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Greek authors. Reports.

0101	Jorge Bravo	Seats (Total: 5)
	MWF 2:00pm - 2:50pm	MTH B0431
	M 1:00pm - 1:50pm	MTH B0429

GREK499 **Independent Study in Greek Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

GREK672 **History and Development of the Greek Language**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Mastery of ancient Greek through grammar review, prose composition, and analysis of historical developments in Greek writers' modes of expression.

0101	Jorge Bravo W 5:00pm - 7:40pm	Seats (Total: 5) MMH 1218

GREK699 **Independent Study in Greek Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

GREK799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

GVPT Government and Politics Fall 2015

GVPT100 **Scope and Methods for Political Science Research**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSSP

An introduction to empirical research in political science.

0101	Irwin Morris MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 2110	 Discussion

0102	Irwin Morris MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 0111	Discussion
0103	Irwin Morris MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 TYD 1114	Discussion
0104	Irwin Morris MW 9:00am - 9:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 TYD 0111	Discussion
0105	Irwin Morris MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 0101	Discussion
0106	Irwin Morris MW 9:00am - 9:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 TYD 1101	Discussion
0107	Irwin Morris MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 BPS 1234	Discussion
0108	Irwin Morris MW 9:00am - 9:50am F 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 SQH 1111	Discussion
0109	Irwin Morris MW 9:00am - 9:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 EGR 3102	Discussion
FC01	Neil Lund TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) TYD 0102	

GVPT105S **Introduction to Political Ethics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Restriction: Must be in the College Park Scholars program; and must be in International Studies program or Public Leadership program.

An examination of major theories of political life and politics as they pertain to international politics, conflict, and culture. Emphasis will be given to theories of ethics and morality that pertain to international studies, such as human rights.

0101	James Glass MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 25) TYD 0117 EDU 2102	 Discussion
0102	James Glass MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0117 EDU 2102	 Discussion
0103	James Glass MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0117 TYD 0101	 Discussion
0104	James Glass MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0117 JMZ 3205	 Discussion

GVPT170 **American Government**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

A comprehensive study of national government in the United States.

0101	Kristina Miler TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 23) LEF 2205 TYD 0101	 Discussion
0102	Kristina Miler TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 23) LEF 2205 TYD 1102	 Discussion
0103	Kristina Miler TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 23) LEF 2205 TYD 1102	 Discussion

0104	Kristina Miler TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 23) LEF 2205 TYD 1118	Discussion
0105	Kristina Miler TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 23) LEF 2205 TYD 1102	Discussion
0106	Kristina Miler TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 23) LEF 2205 TYD 2102	Discussion
0107	Kristina Miler TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 25) LEF 2205 KEY 0126	Discussion
0108	Kristina Miler TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 ARC 1105	Discussion
0109	Kristina Miler TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 TYD 0101	Discussion
FC01	Jason Stonerook MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 47) ASY 2309	

GVPT200 **International Political Relations**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DVUP

Prerequisite: GVPT100.

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

0101	Todd Allee MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 WDS 0104	Discussion

0102	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 1132	Discussion
0103	Todd Allee MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 TYD 0111	Discussion
0104	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 BPS 1238	Discussion
0105	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 2110	Discussion
0106	Todd Allee MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 TYD 2106	Discussion
0107	Todd Allee MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 TYD 0102	Discussion
0108	Todd Allee MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 TYD 2106	Discussion
0109	Todd Allee MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 LEF 1220	Discussion
FC01	Katayoun Kishi TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 50) TYD 1101	

GVPT205S **Special Topics in International Ethics, Conflict, and Immigration**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

Prerequisite: GVPT105. Recommended: GVPT241. Restriction: Must be in College Park Scholars program; and must be in GVPT international Studies program.

An examination of issues in international ethics, conflict generated at the international level, and problems in immigration policy and law, including theories of rights and immigration, and ideological sources of international violence.

0101	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 19) TYD 2109 TYD 1118	 Discussion
0102	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 20) TYD 2109 JMZ 2125	 Discussion
0103	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 20) TYD 2109 TYD 2109	 Discussion
0104	Richard Boyd Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 19) TYD 2109 TYD 2102	 Discussion

GVPT217 **Mock Trial**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: MLAW217. Credit only granted for: MLAW217, GVPT217, or GVPT319A. Formerly: GVPT319A.

Experience the excitement and reward of arguing, and perhaps winning your client's case in court. Mock Trial is designed for students who are interested in learning practical techniques for shaping the evidence, using the law, and exploiting the courtroom to create a coherent and convincing case theory

0101	Mark Graber W 6:30pm - 9:15pm	Seats (Total: 40) TYD 2102	

GVPT221 **Introduction to Formal Theories of Political Behavior and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170.

An introduction to the theories of rational choice including theories of negotiation and bargaining, elections and voting in democracies, community organizing and the contrast between the roles and performances of government and market.

0101	Piotr Swistak Th 2:00pm - 4:45pm	Seats (Total: 30) TYD 0101	

GVPT241 **The Study of Political Philosophy: Ancient and Modern**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Must be in Government & Politics program.

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

0101	Ian Ward MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 LEF 1222	Discussion
0102	Ian Ward MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) SHM 2102 KEY 0120	Discussion
0103	Ian Ward MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 KNI 1103	Discussion
0104	Ian Ward MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) SHM 2102 PLS 1168	Discussion
0105	Ian Ward MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) SHM 2102 ASY 3221	Discussion
0106	Ian Ward MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) SHM 2102 TYD 0111	Discussion

0107	Ian Ward MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 TLF 1103	 Discussion
0108	Ian Ward MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SHM 2102 PLS 1158	 Discussion

GVPT258B **Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258C **Introduction to Political Science Topics in Study Abroad; Government and Politics in China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258D **Introduction to Political Science Topics in Study Abroad; Danish Politics and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258E **Introduction to Political Science Topics in Study Abroad; Government and Politics in Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258F **Introduction to Political Science Topics in Study Abroad; European Union Law and Economic Integration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258I **Introduction to Political Science Topics in Study Abroad; Government and Politics in Italy and Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258N **Introduction to Political Science Topics in Study Abroad; Arms Control in the Nuclear Realm**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258P **Introduction to Political Science Topics in Study Abroad; Sustainable Development: Environmental, Political and Social Issues**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258R **Introduction to Political Science Topics in Study Abroad; Peace and Conflict Honors Seminar II: Regional Conflicts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258T **Introduction to Political Science Topics in Study Abroad; Terrorism and Political Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT273 **Introduction to Environmental Politics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An overview of modern environmental philosophy, politics, and policy, exploring environmental politics in the US by way of comparison with other developed and developing countries.

FC01	Stephen Arves MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) BPS 1238	

GVPT280 The Study of Comparative Politics

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT100.

An introduction to the comparative study of politics and governance, including the analytical concepts for studies of politics and a survey of the major types of regimes, including democratic and authoritarian/communist regimes.

0101	Margaret Pearson TuTh 12:30pm - 1:45pm	Seats (Total: 75) TYD 2109	

GVPT282 Politics and the Developing World

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

A study of the domestic governmental institutions; processes and problems such as conflict and economic development; and the socio-economic environments that are common to developing countries of Africa, the Middle East, Asia, and Latin America.

0101	John McCauley MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 ASY 3219	Discussion
0102	John McCauley MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 EDU 1121	Discussion
0103	John McCauley MW 9:00am - 9:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 KEY 0123	Discussion

0104	John McCauley MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 HBK 0105	Discussion
0105	John McCauley MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 BPS 1228	Discussion
0106	John McCauley MW 9:00am - 9:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 ASY 3221	Discussion

GVPT289B **Special Topics in Government and Politics; Globalization**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289J **Special Topics in Government and Politics; Uncertain Partners: US & China in a Chaning World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	Scott Kastner MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) CHM 1402 TYD 0111	Discussion
0102	Scott Kastner MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) CHM 1402 PLS 1164	Discussion
0103	Scott Kastner MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) CHM 1402 TYD 1132	Discussion
0104	Scott Kastner MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) CHM 1402 TYD 1118	Discussion

0105	Scott Kastner MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) CHM 1402 SYM 0215	Discussion
0106	Scott Kastner MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) CHM 1402 KEY 0124	Discussion

GVPT289O **Special Topics in Government and Politics; Racial and Ethnic Politics in the Obama Era**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	Antoine Banks TuTh 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) CHE 2110 CHE 2118	Discussion
0102	Antoine Banks TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) CHE 2110 CHE 2116	Discussion
0103	Antoine Banks TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) CHE 2110 EGR 2116	Discussion
0104	Antoine Banks TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) CHE 2110 CHE 2116	Discussion
0105	Antoine Banks TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) CHE 2110 ASY 3217	Discussion
0106	Antoine Banks TuTh 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 20) CHE 2110 ASY 3217	Discussion

GVPT289X **Special Topics in Government and Politics; Introduction to European Union**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT309H **Topics in International Relations; British Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT354 **International Development and Conflict Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and permission of BSOS-Government & Politics department; and sophomore standing or higher. Additional information: Students are expected to take the course during the Fall semester after admission to the program.

Serves as the gateway course for the Minor in International Development and Conflict Management. Provides an introductory foundation in the theory and practice of international development and conflict management. Introduces the structures, key players, intersections, and main trends in the evolution of the fields. Explores causal factors that drive economic growth, poverty, inequality, and conflict, as well as the resources, methods, and tools available to track and address these issues.

0101	Stacy Kosko W 2:00pm - 3:40pm F 9:00am - 9:50am	Seats (Total: 25) JMZ 0220 TYD 0102	Discussion
0102	Stacy Kosko W 2:00pm - 3:40pm F 10:00am - 10:50am	Seats (Total: 25) JMZ 0220 TYD 2106	Discussion
0103	Stacy Kosko W 2:00pm - 3:40pm F 12:00pm - 12:50pm	Seats (Total: 25) JMZ 0220 TYD 1101	Discussion

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GVPT356 **Capstone in International Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT354. Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and sophomore standing or higher; and permission of BSOS-Government & Politics department.

Serves as one of the two capstone courses for the Minor in International Development and Conflict Management. Focuses on advanced theory and the practice and profession of international development and is designed to provide students an introduction to, and a chance to engage with, a core set of practical skills relevant to the field.

0101	Stacy Kosko	Seats (Total: 40)
	Tu 2:00pm - 4:45pm	TYD 1118

GVPT358A **Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358D **Study Abroad Seminar in Political Science; Politics and Economy of Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358F **Study Abroad Seminar in Political Science; Government and Politics in France**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358P **Study Abroad Seminar in Political Science; Political Rhetoric: Blogs, Speeches, and Spin**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358R **Study Abroad Seminar in Political Science; Religion and Politics in Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT368K **Special Topics in Government and Politics; Introduction to Geographic Information System for Social Science Research**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in government and politics.

0101	James Gimpel	Seats (Total: 30)
	MW 4:00pm - 5:30pm	PLS 1129

GVPT376 **Applied Field Research in Government and Politics**

(Perm req)

Credits: 3-6 Grading Method: Sat-Fail

Prerequisite: GVPT170. Corequisite: GVPT377.

Students in this course participate as interns in an agency of government or in some other appropriate political organization. Assignments are arranged to provide students with insights into both theoretical and practical aspects of politics. Under the tutelage of the host agency and an academic advisor, students conduct a major research project of mutual interest to the student and his or her host agency in the field of government and politics.

0101	Candace Turitto	Seats (Total: 40)
	Contact instructor or department for details.	

GVPT377 **Seminar For Academic Interns**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT170. Corequisite: GVPT376.

The application of major concepts of political science to the realities of the political process. Readings and discussion attempt to relate the experiences of the academic interns to appropriate literature on the subject of political decision-making.

0101	Candace Turitto	Seats (Total: 40)
	M 6:30pm - 9:15pm	TYD 1132

GVPT386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT388 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Permission of Director of Undergraduate Studies required.

Contact department for information to register for this course.

GVPT388B **Topical Investigations; Innovation in the Public Sector**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Prerequisite: PSYC100, GVPT100 or ECON200. Also offered as GVPT388B. Credit will be granted for BSOS388f or GVPT 388B. How does innovation occur in the public sector? How can government serve as a catalyst for problem-solving? Using the tools of innovation and entrepreneurship, this laboratory course engages students in a semester-long project to innovate change around a specific public sector issue or industry in our local or regional community. Some examples might include: public broadband access, sustainability infrastructure, transportation improvements, or health care access in the College Park, Prince George's, or Maryland communities. Lead instructor Ken Ulman,'97 is the former Howard County Executive who now heads the University's efforts to transform College Park into one of the most innovative university towns in the country. For permission to register, email Blessing Enekwe at blessing@umd.edu with your name, UID and a brief statement of why this course is of interest to you.

0101	Samantha O'Neil, Kenneth Ulman W 4:00pm - 6:30pm	Seats (Total: 20) CHT 2113

GVPT388I **Topical Investigations; Government and Politics Public Policy Internship Program**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

0101	Candace Turitto M 6:30pm - 9:15pm	Seats (Total: 40) TYD 2102

GVPT388L **Topical Investigations; Maryland Politics, Policy, and Leadership**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Permission of BSOS-Government & Politics department. For permission to register, email GVPT Advising at gvptadvising@umd.edu with your name and UID.

0101	Stella Rouse	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	TYD 1102

GVPT388M **Topical Investigations; Mock Trial**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

0101	Mark Graber	Seats (Total: 17)
	W 6:30pm - 9:15pm	TYD 2108

GVPT388P **Topical Investigations; Maryland Internship**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Must have departmental permission to register; to apply, vist CAPC. This competitive program places highly qualified undergraduate students in internships in Maryland state and local government. Internship placements could include the offices of the Governor and Lieutenant Governor, members of the General Assembly, state and local agencies, and courts. Participants attend a seminar in addition to their internship duties.

0101	Raymond Williams	Seats (Total: 20)
	Tu 6:30pm - 9:15pm	TYD 2108

GVPT389 **Experiential Learning II**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Junior standing.

Contact department for information to register for this course.

GVPT390 **Game Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not have completed ECON414. Credit only granted for: GVPT399A, GVPT390, CMSC474 or ECON414. Formerly: GVPT399A.

Introduction to game theory with applications to political science, economics and sociology. Topics include preference theory, expected utility theory, Nash equilibria, subgame perfection, repeated games, folk theorems, and evolutionary stability.

0101	Piotr Swistak	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	TYD 0101

GVPT396 **Introduction to Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Government & Politics Honors Program; and must have permission of the Government & Politics Honors Program.

A required course for all honors students designed to emphasize library research, methodology, and writing skills in political science and political philosophy. A written proposal, bibliography and research design for an honors paper required of all students as a final project.

Contact department for information to register for this course.

GVPT397 **Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: GVPT396. Restriction: Must be in Government & Politics Honors Program.

Individual reading and research. Preparation of an original paper.

Contact department for information to register for this course.

GVPT399C **Seminar in Government and Politics; The Case of Catalonia**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399D **Seminar in Government and Politics; Society and Politics in Contemporary Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399G **Seminar in Government and Politics; Israeli Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Prerequisite: 3 credit hours of coursework in Israel Studies. Also offered as ISRL448A. Credit will be granted for GVPT399G or ISRL448A. An exploration of the nature of the Israeli political system: including constitutional structure, the multi-party system, the Knesset, electoral behavior, role of the military and media in the public sphere, and with a special emphasis on the role of leadership in Israel's history. Some previous knowledge of Israeli politics desirable

0101	Yoram Peri	Seats (Total: 25)
	M 2:00pm - 4:30pm	LEF 1220

GVPT399I **Seminar in Government and Politics; Globilization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399L **Seminar in Government and Politics; British Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399N **Seminar in Government and Politics; Political Movements in the European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399X **Seminar in Government and Politics; Political Movements in the European Union**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT409H **Seminar in International Relations and World Politics; Quantitative Study of International Relations**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT100. Restriction: Must be in the Government and Politics Honors Program.

0101	Sarah Croco Th 2:00pm - 4:30pm	Seats (Total: 20) WDS 1127

GVPT409P **Seminar in International Relations and World Politics; Conflict in the International System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	David Cunningham TuTh 12:30pm - 1:45pm	Seats (Total: 27) TYD 1101

GVPT409V **Seminar in International Relations and World Politics; Game Theory And International Security**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT419B **Seminar in Public Policy; Advanced Topics in Environmental Policy analysis**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in public policy. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT273. Restriction: Must be in the Government and Politics or Environmental Science and Policy program.

0101	Isabella Alcaniz	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	SQH 1117

GVPT423 **Elections and Electoral Behavior**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program.

An examination of various topics relating to elections; the focus includes the legal structure under which elections are conducted, the selection and nomination process, the conduct of election campaigns, and patterns of political participation and voting choice in different types of elections.

0101	Lilliana Mason	Seats (Total: 27)
	M 2:00pm - 4:45pm	TYD 0101

GVPT431 **Introduction to Constitutional Law**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program; and junior standing or higher.

A systematic inquiry into the general principles of the American constitutional system, with special reference to the role of the judiciary in the interpretation and enforcement of the federal constitution.

0101	Michael Spivey MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 22) TYD 2109 TYD 1101	Discussion
0102	Michael Spivey MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 22) TYD 2109 MTH B0429	Discussion
0103	Michael Spivey MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 22) TYD 2109 WDS 0104	Discussion

GVPT432 **Civil Rights and the Constitution**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT331. Restriction: Must be in Government & Politics program.

A study of civil rights in the American constitutional context, emphasizing freedom of religion, freedom of expression, minority discrimination, and the rights of defendants.

SG91	Samantha Davis W 3:30pm - 6:00pm	Seats (Total: 40) BLD3 2226

GVPT433 **The Judicial Process**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT331. Restriction: Must be in Government & Politics program.

An examination of judicial organization in the United States at all levels of government, with some emphasis on legal reasoning, legal research, and court procedures.

Restricted to CCJS students at shady Grove.

SG91	Brent Newton W 6:30pm - 9:00pm *Restricted to CCJS students at Shady Grove.*	Seats (Total: 20) BLD3 3219

GVPT439C **Seminar in Public Law; Current Issues in the Supreme Court**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in public law. Both substantiv issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Michael Spivey	Seats (Total: 27)
	MW 4:00pm - 5:15pm	TYD 2109

GVPT441 **History of Political Theory: Ancient and Medieval**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program; and junior standing or higher.

A survey of the principal political theories set forth in the works of writers before Machiavelli.

0101	Charles Alford	Seats (Total: 27)
	TuTh 2:00pm - 3:15pm	TYD 1114

GVPT443 **Contemporary Political Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program.

A survey of the principal political theories and ideologies set forth in the works of writers from Karl Marx to the present.

Contact department for information to register for this course.

GVPT445 **Marxism and Postmarxism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within BSOS-Government & Politics department.

The study of Marxist thought and an assessment of the critical transformations and reassessments of the theory and practice of Marxism.

0101	Vladimir Tismaneanu	Seats (Total: 27)
	TuTh 11:00am - 12:15pm	TYD 1118

GVPT449C **Seminar in Political Philosophy; Democratic Theory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Ian Ward W 2:30pm - 5:15pm	Seats (Total: 27) TYD 0101

GVPT449K **Seminar in Political Philosophy; Politics and Literature**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Charles Alford Tu 4:00pm - 6:30pm	Seats (Total: 27) TYD 1114

GVPT456 **The Politics of Terrorism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program. Credit only granted for: GVPT456 or GVPT459T. Formerly: GVPT459T.

Examination of the definition, causes and organization of terrorist activity, along with key domestic and international counter- and anti-terrorism responses. Special emphasis on challanges and opportunities to the scientific study of terrorism.

0101	Kanisha Bond TuTh 12:30pm - 1:45pm	Seats (Total: 27) TYD 1118

GVPT457 **American Foreign Relations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

The principles and machinery of the conduct of American foreign relations, with emphasis on the Departments of State and Defense, and an analysis of the major foreign policies of the United States.

Contact department for information to register for this course.

GVPT459B **Seminar in Comparative Politics; Political Institutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Ernesto Calvo	Seats (Total: 27)
	TuTh 11:00am - 12:15pm	TYD 2111

GVPT459D **Seminar in Comparative Politics; Politics of the Developing World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Joel Simmons	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TYD 0102

GVPT459E **Seminar in Comparative Politics; Comparative Politics of the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Must be in the Government and Politics program.

0101	Calvert Jones	Seats (Total: 27)
	TuTh 11:00am - 12:15pm	PLS 1113

GVPT459I **Seminar in Comparative Politics; Thinking Like a Citizen: Civic Ideals and Civic Practices**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200 or GVPT280. Restriction: Must be in the Governmentand Politics program. All other majors will be placed on the holdfile. This course is an introduction to the emerging field of civic studies. It takes as a starting point the idea of citizens as co-creators of their many worlds, their various communities, their countries, and of course the literal world. We will look into what knowledge and what ways of thinking are most helpful to such co-creators. Topics will include: civic work in the small (human interaction, politics, power resources), finding and building shared ground, impediments to civic action (problem of a collective action, limited human brain, the power of the status quo), and venues of civic action (including communities, social movements, countries, and the world).

0101	Karol Soltan	Seats (Total: 27)
	TuTh 2:00pm - 3:15pm	TYD 1132

GVPT459L **Seminar in Comparative Politics; Comparative Political Economy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Joel Simmons	Seats (Total: 12)
	TuTh 2:00pm - 3:15pm	TYD 1111

GVPT459R **Seminar in Comparative Politics; The Rise and Fall of Communism**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200 or GVPT280. Restriction: Must be in the Government and Politics program.

0101	Vladimir Tismaneanu	Seats (Total: 27)
	Th 2:00pm - 4:45pm	TYD 0102

GVPT473 **The U.S. Congress**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program; and junior standing or higher.

A detailed survey of lawmaking and the legislative process, emphasizing the U.S. Congress, and its members.

0101	Eric Uslaner MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 1101 CHE 2145	Discussion
0102	Eric Uslaner MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 1101 CHE 2145	Discussion
0103	Eric Uslaner MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 1101 JMZ 1124	Discussion

GVPT475 **The Presidency and the Executive Branch**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program; and junior standing or higher.

An examination of the U.S. presidency in historical and contemporary perspective: nomination and electoral politics and the president's place in policy-making, administration, and public opinion.

0101	David Karol MW 2:00pm - 3:15pm	Seats (Total: 30) TYD 0102

GVPT479F **Seminar in American Politics; The Supreme Court**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Patrick Wohlfarth W 2:00pm - 4:45pm	Seats (Total: 27) JMZ 0103

GVPT479G **Seminar in American Politics; Interest Groups and Social Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Kristina Miler TuTh 11:00am - 12:15pm	Seats (Total: 27) TYD 0102

GVPT479H **Seminar in American Politics; Political Ambition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Must be in the Government and Politics Honors Program.

0101	Frances Lee TuTh 11:00am - 12:15pm	Seats (Total: 20) TYD 0101

GVPT479Y **Seminar in American Politics; Political Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Antoine Banks TuTh 11:00am - 12:15pm	Seats (Total: 27) TYD 1132

GVPT482 **Government and Politics of Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program.

A comparative study of the governmental systems and political processes of the Latin American countries.

0101	Ernesto Calvo	Seats (Total: 27)
	TuTh 9:30am - 10:45am	TYD 0101

GVPT484H **Government and Politics of Africa**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT282 or GVPT280. Restriction: Must be in a major within BSOS-Government & Politics department.

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

Restriction: Must be in the Government and Politics Honors program.

0101	John McCauley	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TYD 1102

GVPT485 **Government and Politics of the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program.

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

Contact department for information to register for this course.

GVPT599 **Teaching Political Science**

Credits: 1 Grading Method: Regular, Audit

Problems in teaching political science. Topics covered include lecture and discussion strategies, creation of an active learning environment, construction and evaluation of examinations, department and university policies, and dealing with various types of teaching problems. This course does not carry credit towards any degree at the University.

0101	Kathleen Cunningham Contact instructor or department for details.	Seats (Total: 20)	

GVPT622 **Quantitative Methods For Political Science**

Credits: 3 Grading Method: Regular, Audit

Introduction to quantitiative methods of data analysis, with emphasis on statistical methods and computer usage. Measures of association, probability, correlation, linear regression estimation techniques, introductory analysis of variance, and use of package computer programs.

Course will meet in the LeFrak OASIS lab. For GVPT majors only.

0101	David Cunningham Th 3:30pm - 6:15pm F 2:00pm - 4:00pm	Seats (Total: 10) JMZ 1123 LEF 0214	 Discussion
0201	Patrick Wohlfarth Th 3:30pm - 6:15pm F 2:00pm - 4:00pm	Seats (Total: 10) Location: TBA Location: TBA	

GVPT700 **Scope and Method of Political Science**

Credits: 3 Grading Method: Regular, Audit

Required of all Ph.D. candidates. A seminar in the methodologies of political science, and their respective applications to different research fields. Interdisciplinary approaches and bibliographical techniques are also reviewed.

For GVPT majors only.

0101	Kanisha Bond Tu 2:00pm - 4:45pm	Seats (Total: 10) TYD 1136	
0201	Sarah Croco Tu 2:00pm - 4:45pm	Seats (Total: 10) Location: TBA	

GVPT708A **Seminar in International Relations Theory; International Relations Theory**

Credits: 3 Grading Method: Regular, Audit

An examination of the major approaches, concepts, and theories in the study of world politics with special emphasis on contemporary literature.

0101	Paul Huth	Seats (Total: 12)
	M 12:30pm - 3:15pm	TYD 1111

GVPT729A **Special Topics in Quantitative Political Analysis; Advanced Maximum Likelihood Estimation**

Credits: 3 Grading Method: Regular, Audit

An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.

0101	Michael Hanmer	Seats (Total: 12)
	Th 12:30pm - 3:15pm	LEF 0231

GVPT729D **Special Topics in Quantitative Political Analysis; GIS Analysis for Social Science Research**

Credits: 3 Grading Method: Regular, Audit

An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.

0101	James Gimpel	Seats (Total: 10)
	W 9:00am - 11:45am	LEF 0231

GVPT743 **Contemporary Political Theory**

Credits: 3 Grading Method: Regular

Restriction: Must have graduate standing.

Theorists from Nietzsche (1884-1900) to the present will be covered with a focus on the apparent failure of the Enlightenment to usher in an age of peace and reason.

0101	James Glass	Seats (Total: 12)
	W 3:30pm - 6:15pm	TYD 1111

GVPT761 **International Political Economy**

Credits: 3 Grading Method: Regular, Audit

Recommended: GVPT708.

Major issues in international political economy including such matters as the monetary system, trade, debt, and development.

0101	Todd Allee	Seats (Total: 12)
	W 3:30pm - 6:15pm	TYD 1136

GVPT770 **Seminar in American Political Institutions**

Credits: 3 Grading Method: Regular, Audit

This is the core institutions seminar in American politics. The course surveys the primary literature in the field and addresses substantively significant topics related to the study of political institutions in the American context.

0101	Eric Uslaner	Seats (Total: 12)
	M 3:30pm - 6:15pm	TYD 1136

GVPT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GVPT849 **Readings in Government and Politics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Guided readings and discussions on selected topics in political science

Contact department for information to register for this course.

GVPT874 **Seminar in Political Parties and Politics**

Credits: 3 Grading Method: Regular, Audit

Reports on topics assigned for individual study and reading in the fields of political organization and action.

0101	David Karol	Seats (Total: 12)
	W 6:30pm - 9:15pm	TYD 1136

GVPT888B **Selected Topics in Comparative Governmental Institutions; Democracy and Democratization**

Credits: 3 Grading Method: Regular, Audit

An examination of special topics in comparative politics.

0101	Isabella Alcaniz	Seats (Total: 12)
	Tu 9:30am - 12:15pm	TYD 1111

GVPT888E **Selected Topics in Comparative Governmental Institutions; Conflict Studies**

Credits: 3 Grading Method: Regular, Audit

An examination of special topics in comparative politics.

0101	Mark Lichbach	Seats (Total: 12)
	Th 9:30am - 12:15pm	TYD 1136

GVPT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HACS ACES-Cybersecurity Fall 2015

HACS100 **Foundations in Cybersecurity I**

Credits: 2 Grading Method: Regular

Restriction: Must be a first-year student in the ACES Honors program.

Interdisciplinary foundational course of the ACES program. Through lectures, lab activities, and discussions, students will learn and practice various aspects of cybersecurity. Weekly technical lectures will introduce students to the operating system UNIX. Students will partner with the Division of Information Technology in a project to engage the University of Maryland community in a cyber-hygiene and cyber-ethics campaign based on the concepts learned in class.

0101	Michel Cukier, Jandelyn Plane TuTh 2:00pm - 2:50pm	Seats (Total: 27) PFR 1111
0201	Jandelyn Plane, Michel Cukier TuTh 3:00pm - 3:50pm	Seats (Total: 27) PFR 1111
0301	Michel Cukier, Jandelyn Plane TuTh 2:00pm - 2:50pm	Seats (Total: 27) PFR 0103
0401	Jandelyn Plane, Michel Cukier TuTh 3:00pm - 3:50pm	Seats (Total: 27) PFR 0103

HACS201 **Introduction to UNIX**

Credits: 1 Grading Method: Regular

Restriction: Must be a student in the ACES Honors program. Credit only granted for: HACS201 or CMSC216. Additional information: Required course for non-ACES I students who have not taken CMSC216.

Introduction to the operating system UNIX through lectures and hands-on assignments.

0101	Angelisa Plane, Jandelyn Plane Contact instructor or department for details.	Seats (Total: 20)

HACS202 **Group Project in Cybersecurity**

Credits: 3 Grading Method: Regular

Restriction: Must be a first-year ACES II student; and cannot have been an ACES I student (i.e., have taken HACS100 and HACS102).

The group project in this course will combine technical, analytical, and communication skills, further engaging students in the practice of cybersecurity. Students will learn about design concepts and data analysis as they engage in a team project designing, deploying, and collecting and analyzing data from a honeypot. The hands-on nature of the course will give students experiential insight about how and why attackers attack and how to engage in protective measures to prevent attacks.

0101	Bertrand Sobesto TuTh 5:00pm - 6:15pm	Seats (Total: 20) MTH 0402

HACS208A **Seminar in Cybersecurity; Accounting and Economic Aspects of Cybersecurity**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES Honors program.

0101	Lawrence Gordon	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	VMH 1518

HACS208C **Seminar in Cybersecurity; Human Actors and Cyber Attacks**

Credits: 3 Grading Method: Regular General Education: DSHS, DSSP, SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES Honors program.

0101	Katherine Izsak	Seats (Total: 20)
	W 2:00pm - 4:45pm	PFR 1111

HACS208P **Seminar in Cybersecurity; Beyond Technology, the Policy Implications of Cyberspace**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES Honors program.

0101	William Nolte	Seats (Total: 20)
	Th 5:00pm - 7:45pm	PFR 1111

HACS208Z **Seminar in Cybersecurity; Methods for Solving (and Not Solving) Puzzles**

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Must be a student in the ACES Honors program.

0101	Gregory Clark, Dimitrije Kostic TuTh 9:30am - 10:45am	Seats (Total: 20) PFR 1111

HACS279 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

0101	Michel Cukier Contact instructor or department for details.	Seats (Total: 6)
0201	Dana Dachman-Soled Contact instructor or department for details.	Seats (Total: 5)
0301	James Purtilo Contact instructor or department for details.	Seats (Total: 5)

HACS287 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be in the UGST-HCOL-ACES Cybersecurity Program.

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

0101	Michel Cukier Contact instructor or department for details.	Seats (Total: 5)
0201	Dana Dachman-Soled Contact instructor or department for details.	Seats (Total: 5)
0301	Tudor Dumitras Contact instructor or department for details.	Seats (Total: 5)
0401	Vanessa Frias-Martinez Contact instructor or department for details.	Seats (Total: 5)

0501	Katherine Izsak Contact instructor or department for details.	Seats (Total: 5)
0601	James Purtilo Contact instructor or department for details.	Seats (Total: 5)
0701	William Arbaugh Contact instructor or department for details.	Seats (Total: 5)
0801	Arthur Johnson Contact instructor or department for details.	Seats (Total: 5)
0901	Instructor: TBA	Seats (Total: 10)
1001	Instructor: TBA	Seats (Total: 5)

HACS297 **Cybersecurity Experience Reflection**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Honors College ACES I program.

Cybersecurity experience is defined as an experiential learning activity either with a University of Maryland entity (such as the Division of Information Technology, the ACES competition team or in an ACES outreach program), or with an external organization that will provide valuable, hands-on experience to supplement the knowledge learned in the other ACES coursework.

Permission of department required.

0101	Rebecca Thomas M 4:00pm - 6:45pm	Seats (Total: 20) PFR 1111

HACS479 **Undergraduate Research in Cybersecurity**

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HDCC Digital Cultures and Creativity Fall 2015

HDCC105 **Introduction to Digital Cultures and Creativity I**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Digital Cultures and Creativity Honors College Living/Learning program.

History, concepts, and technologies of creative digital expression, coupled with an introduction to development for particular platforms and devices.

Course meets in Prince Frederick Hall rooms 1105 and 1111.

0101	Jason Farman, Porter Olsen, Joseph Meyer Tu 4:00pm - 5:15pm Contact instructor or department for details. W 4:00pm - 4:50pm *Discussion meets in Prince Frederick Hall room 1111.*	Seats (Total: 15) PFR 1105 PFR 1105	Discussion
0102	Porter Olsen, Jason Farman, Joseph Meyer Tu 4:00pm - 5:15pm Contact instructor or department for details. W 5:00pm - 5:50pm *Discussion meets in Prince Frederick Hall room 1111.*	Seats (Total: 15) PFR 1105 PFR 1105	Discussion
0103	Jason Farman, Porter Olsen, Joseph Meyer Tu 4:00pm - 5:15pm Contact instructor or department for details. Th 4:00pm - 4:50pm *Discussion meets in Prince Frederick Hall room 1105.*	Seats (Total: 15) PFR 1105 PFR 1105	Discussion
0104	Porter Olsen, Jason Farman, Joseph Meyer Tu 4:00pm - 5:15pm Contact instructor or department for details. Th 5:00pm - 5:50pm *Discussion meet ins in Prince Frederick Hall room 1105.*	Seats (Total: 15) PFR 1105 PFR 1105	Discussion

HDCC208J **Seminar in Digital Cultures and Creativity; Media, Culture, and Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Alexis Lothian	Seats (Total: 13)
	Tu 4:00pm - 6:30pm	PRF 0111

HDCC208K **Seminar in Digital Cultures and Creativity; Digital Media and Political Activism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Sahar Khamis	Seats (Total: 13)
	TuTh 10:00am - 11:15am	PFR 0111

HDCC208L **Seminar in Digital Cultures and Creativity; Art and Environmental Practices**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Krista Caballero	Seats (Total: 13)
	Th 3:00pm - 5:30pm	PRF 0111

HDCC208M **Seminar in Digital Cultures and Creativity; Video Installation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Krista Caballero	Seats (Total: 5)
	W 4:00pm - 6:30pm	PFR 0111

HDCC208N **Seminar in Digital Cultures and Creativity; Research Methods and Practices for Computing Interaction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.

Must be in the Digital Cultures and Creativity Honors College Living/Learning program. Prerequisite: HDCC105 and HDCC106.

0101	Evan Golub	Seats (Total: 13)
	MW 2:00pm - 3:15pm	EGR 0110

HDCC379 **Digital Cultures and Creativity Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular

Involves research and/or creative scholarship directed by individual DCC faculty outside of the formal classroom structure.

Prequisites: HDCC 208 and HDCC 209.

0101	Hasan Elahi	Seats (Total: 5)
	Contact instructor or department for details.	

HEBR Hebrew Fall 2015

HEBR111 **Elementary Hebrew I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed HEBR101; and must not have completed HEBR102. Credit only granted for: (HEBR101 and HEBR102) or HEBR111.

Modern Israeli Hebrew. Emphasis on conversation. Study of linguistic structure and development of audio-lingual, writing and reading ability.

0101	Aharona Gazit-Rosenthal, Avital Feuer	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 0120
	TuTh 9:30am - 10:45am	JMZ 2125

HEBR112 **Elementary Hebrew II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HEBR111; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed HEBR103; and must not have completed HEBR104. Credit only granted for: (HEBR103 and HEBR104) or HEBR112.

Continuation of HEBR 111.

Contact department for information to register for this course.

HEBR211 **Intermediate Hebrew I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: HEBR112; or Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed HEBR201; and must not have completed HEBR202. Credit only granted for: (HEBR201 and HEBR202) or HEBR211.

Study of linguistic structure, further development of audio-lingual, reading, writing, and speaking skills. Reading of texts and newspapers designed to give some knowledge of Hebrew life, thought and culture.

0101	Aharona Gazit-Rosenthal, Avital Feuer	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 1226
	TuTh 12:30pm - 1:45pm	JMZ 2125

HEBR212 **Intermediate Hebrew II**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: HEBR211; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed HEBR203; and must not have completed HEBR204. Credit only granted for: (HEBR203 and HEBR204) or HEBR212.

Continuation of HEBR211.

Contact department for information to register for this course.

HEBR298A **Special Topics in Jewish Studies; Introduction to Classical Hebrew I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST260. Credit only granted for HEBR298A or JWST260.

0101	Matthew Suriano MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 3118

HEBR313 **Conversation and Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: HEBR212; or students who have taken courses with comparable content may contact the department.

A practical language course recommended for all students continuing with Hebrew. Review of grammar and composition. Selected readings. Oral and written exercises.

0101	Aharona Gazit-Rosenthal MWF 9:00am - 9:50am	Seats (Total: 15) JMZ 3120
0201	Aharona Gazit-Rosenthal Class time/details on ELMs	Seats (Total: 15) ONLINE

HEBR369A **Special Topics in Study Abroad III; Hebrew Lower Advanced**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369C **Special Topics in Study Abroad III; Hebrew Upper Advanced**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369D **Special Topics in Study Abroad III; Hebrew Upper Intermediate**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor; and junior standing or higher.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEBR430 **Critical Issues in Israeli Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: FILM430. Credit only granted for: HEBR430 or FILM430.

Critical investigation of Zionist and Israeli culture and politics through film.

Additional Note: Also offered as JWST429J, RELS419F, ISRL449K, FILM430. Credit granted for HEBR430, JWST429J, RELS419F, ISRL449K, or FILM430.

0101	Eric Zakim	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1103

HEBR499 **Independent Study in Hebrew**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEIP Entrepreneurship and Innovation Fall 2015

HEIP143 **Foundations of Entrepreneurship and Innovation**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Entrepreneurship and Innovation Program (EIP).

Foundational ideas and terms in entrepreneurship and innovation are introduced, with attention to developing students understanding of cultivating a business in diverse, global environments; leading and collaborating in a competitive world; developing an entrepreneurial mind for an entrepreneurial world; and industry dynamics of technological innovation.

0101	Jay Smith M 5:00pm - 5:50pm	Seats (Total: 120) SPH 1312

HEIP240 **Exploring International Entrepreneurship and Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Must be an EIP student in good-standing.

An introduction to the opportunities and challenges of entrepreneurship and innovation from an international perspective.

0101	Jay Smith TuTh 12:30pm - 1:45pm	Seats (Total: 36) LPA 0100
0201	Jay Smith TuTh 3:30pm - 4:45pm	Seats (Total: 55) LPA 0100
0301	Jay Smith TuTh 5:00pm - 6:15pm	Seats (Total: 32) LPA 0100

HESI Higher Ed, Student Affairs, and International Ed Policy Fall 2015

HESI217 **Introduction to Student Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Freshman standing; or sophomore standing. Credit only granted for: HESI217 or EDCP217. Formerly: EDCP217.

Introduction to leadership theories, concepts, and skills. Completion of personal and leadership self-assessments, values exploration, and small group application.

Students must pay a $32 materials fee.

0101	Steven Young TuTh 12:30pm - 1:45pm	Seats (Total: 25) KEY 0126
0201	Anne Spear TuTh 2:00pm - 3:15pm	Seats (Total: 25) CCC 1115
0301	Ashley Venneman MW 11:00am - 12:15pm	Seats (Total: 25) TWS 0236
0401	Kahlin McKeown TuTh 2:00pm - 3:15pm	Seats (Total: 25) CSI 3118
	Department permission required. Section open only to members of Fraternity and Sorority organizations recognized by the Department of Fraternity and Sorority Life. Contact Kahlin McKeown at kmckeown@umd.edu for permission to enroll.	

HESI315 **Student Leadership in Groups and Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: HESI217. Credit only granted for: HESI315 or EDCP315. Formerly: EDCP315.

Acquiring and integrating leadership knowledge within group and organizational contexts so that students can navigate organizational environments and apply leadership in diverse communities of practice and career contexts.

Students must pay a $15 materials fee.

0101	Kristen Rupert TuTh 11:00am - 12:15pm	Seats (Total: 25) SPH 0303
0201	Jacqueline Mac MW 12:30pm - 1:45pm	Seats (Total: 25) ASY 3219
0301	Courtney Holder MW 2:00pm - 3:15pm	Seats (Total: 15) EDU 2102
	Department permission required. This section is restricted to students who have completed EDCP217 or HESI217 or who have been admitted to the Minor in Leadership Studies. Email leadershipstudies@umd.edu for permission to enroll.	

0401	Melissa Rocco MW 11:00am - 12:15pm *Department permission required. This section is restricted to students who have completed EDCP217 or who have been admitted to the Minor in Leadership Studies. Email leadershipstudies@umd.edu for permission to enroll.*	Seats (Total: 15) ARC 1125
0501	Kristen Rupert TuTh 2:00pm - 3:15pm	Seats (Total: 25) JMZ 1215

HESI318E **Applied Contextual Leadership; Leadership for Peer Assisted Learning**

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Open to students participating as peer mentors with the Learning Assistance Service (LAS) of the Counseling Center. Course designed for students selected to participate in the Peer Assisted Learning (PAL) program of LAS. Topics include: listening and communication skills, developing helping relationships, facilitating learning, the role of culture, and ethics. Course also includes lab hours leading peer mentoring sessions of for academic coursework.

0101	Katie Koo M 5:00pm - 7:45pm Contact instructor or department for details.	Seats (Total: 20) JMZ 2123

HESI318J **Applied Contextual Leadership; Leadership and Sports**

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

0101	Terry Zacker TuTh 12:30pm - 1:45pm	Seats (Total: 25) PLS 1117

HESI318M **Applied Contextual Leadership; Leadership and Education**

(Perm req)

Credits: 3
Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

All students enrolled in the course must work with one of the three America Reads*America Counts programs and must receive permission to enroll by contacting Alison Barlow at abarlow@umd.edu. This course will explore public education policy in the United States, including historical context, No Child Left Behind legislation, the achievement gap, school funding, standardized testing, and alternatives to the current public education system. It will also explore the meaning of leadership in an educational context and advocacy for change within this context.

0101	Alison Barlow	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

HESI318N **Applied Contextual Leadership; Leadership in Collaborative Learning Groups**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Restricted to students selected to participate in the guided study program through the Counseling Center.

0101	Yanira Ortiz	Seats (Total: 20)
	Th 2:00pm - 3:15pm Contact instructor or department for details.	ASY 3219
0201	Yanira Ortiz	Seats (Total: 20)
	W 5:00pm - 6:15pm Contact instructor or department for details.	ASY 3219

HESI318R **Applied Contextual Leadership; Foundations and Applications of Challenge Course Theory and Instruction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Permission of Instructor. Required course to become a Challenge Course Facilitator for the Outdoor Recreation Center. Contact Mike Phaneuf (mphaneuf@umd.edu) to arrange an interview. This is a leadership course focusing on Challenge Course technical skills, experiential theory, and group dynamics. Student selection is based on previous leadership experience and leadership potential.

0101	Michael Phaneuf	Seats (Total: 20)
	W 6:00pm - 9:00pm	CRC B0170E

HESI318T **Applied Contextual Leadership; Foundations and Applications of Adventure Leadership Instruction**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Permission of Instructor. Contact Amanda Even (ameven@umd.edu) to arrange an interview. This course is designed to help students develop the necessary outdoor leadership skills fo leading participants and groups in various outdoor adventure activities. The course will focus on developingtechnical skills, leadership abilities, and overall knowledge of best practices for recreating in the natural environment.

0101	Amanda Even	Seats (Total: 8)
	W 6:00pm - 9:00pm	ERC 0140

HESI320 **Social Action Seminar**

Credits: 2

Grading Method: Regular, Audit

Prerequisite: HESI217. Restriction: Limited to Minor in Leadership Studies students.

The use of leadership theories to inform the practice of addressing social issues in society, on campus, or within the surrounding community. Students will: identify a current and compelling social issue; explore the historical, social, and political aspects of social issues; identify and select applicable leadership theories to confront the social issue; create and develop a plan that integrates leadership theories and the social issue; and implement and evaluate the overall social action project.

0101	Melissa Rocco	Seats (Total: 15)
	Class time/details on ELMs Contact instructor or department for details.	ONLINE

HESI417 **Advanced Leadership Seminar**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESI217; or students who have taken courses with comparable content may contact the department. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDCP417 or HESI417.

Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, historical perspectives. Exploration and reflection of personal values, decision making, in-depth analysis on various leadership activities. Theories will be emphasized.

0101	Natasha Chapman, Craig Slack F 9:00am - 11:45am	Seats (Total: 20) EDU 1315

HESI418A **Special Topics in Leadership; Asian American Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Students will be introduced to leadership models and examples specific to Asian American & Pacific Islander communities throughout history and in current times. While the central objective of this course is to develop politically engaged and historically informed leaders and community members for the AAPI campus community, this course is open to anyone who is interested in social justice and learning more about student organizing around identity.

0101	Jude Paul Dizon, Kristina Mascarenas TuTh 11:00am - 12:15pm	Seats (Total: 20) HBK 0115

HESI418D **Special Topics in Leadership; Leadership and Ethnicity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Brandon Dula TuTh 2:00pm - 3:15pm	Seats (Total: 25) EDU 2101

HESI418F **Special Topics in Leadership; Jewish Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Ari Israel Th 2:00pm - 4:45pm	Seats (Total: 20) JMZ 0122

HESI418K **Special Topics in Leadership; Stories of the Multiracial/ethnic/cultural Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Students will be offered the opportunity to explore leadership in connection with multiracial/ethnic/cultural identities utilizing an interdisciplinary narrative approach (i.e. storytelling). Topics will include: leadership theories & styles, inter-racial/cultural relationships, transracial & transnational adoption, the multiracial family, media representations of multiracial individuals, the history of racialization in the U.S., racial identity development, processes of "othering" (e.g. colorism, authenticity testing), and the politics of claiming, passing, and accenting.

0101	Naliyah Kaya TuTh 3:30pm - 4:45pm	Seats (Total: 20) CSI 2118

HESP Hearing and Speech Sciences Fall 2015

HESP120 **Introduction to Linguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP

Additional information: HESP120 is required for HESP majors. HESP majors may not substitute LING200.

An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics and pragmatics, with subsequent attention to the applied aspects of linguistic principles.

0101	Johanna Tigert TuTh 12:30pm - 1:45pm	Seats (Total: 36) TYD 0111
0201	Ilina Stojanovska MW 4:30pm - 5:45pm	Seats (Total: 36) PHY 1204

FC01	Michelle Morrison MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) EDU 2119

HESP202 **Introduction to Hearing and Speech Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to communication sciences and disorders; a survey of th bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

0101	Kathleen Skinker TuTh 11:00am - 12:15pm	Seats (Total: 103) LEF 2205

HESP300 **Introduction to Psycholinguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department. Recommended: HESP120.

An introduction to current theories of language and an investigation of their relationship to human communication behavior. Survey of the experimental literature relating to this question.

0101	Jared Novick TuTh 11:00am - 12:15pm	Seats (Total: 43) ARC 1105

HESP305 **Anatomy and Physiology of the Speech Mechanism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Anatomy, physiology, and neurology of speech mechanism.

0101	Joni Williams, Tammatha O'Brien TuTh 12:30pm - 1:45pm	Seats (Total: 41) WDS 1114

HESP311 **Anatomy, Pathology and Physiology of the Auditory System**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.

0101	Kelly King	Seats (Total: 45)
	Tu 5:00pm - 7:30pm	LEF 2166

HESP386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Contact department for information to register for this course.

HESP388 **Undergraduate Research Externship**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and regional universities. Contact department chairman for openings and descriptions of eligible placements.

Contact department for information to register for this course.

HESP389 **LEAP Classroom Internship**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Participation in a language-based, literacy-rich preschool classroom fo children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.

Contact department for information to register for this course.

HESP400 **Speech and Language Development in Children**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP300; or permission of BSOS-Hearing & Speech Sciences department. Recommended: LING200 or HESP120. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Analysis of the normal processes of speech and language development in children.

0101	Yi Ting Huang	Seats (Total: 35)
	TuTh 9:30am - 10:45am	LEF 2208

HESP403 **Introduction to Phonetic Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to physiological, acoustic and perceptual phonetics; broad and narrow phonetic transcription; current models of speech production and perception.

0101	Nur Karatas	Seats (Total: 35)
	TuTh 9:30am - 10:45am	ARC 1101

HESP406 **Acquired Neurogenic Communication Disorders in Adults**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP300 and HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Survey of the dysarthrias and aphasias in adults from an interdisciplinary point of view.

0101	Yasmeen Shah	Seats (Total: 50)
	TuTh 11:00am - 12:15pm	LEF 2208

HESP407 **Bases of Hearing Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Fundamentals of hearing, including the physics of sound, anatomy and physiology of peripheral and central auditory nervous system, psychophysical procedures used in measurement of auditory sensation and perception, and topics in psychological acoustics.

0101	Julie Cohen	Seats (Total: 50)
	MW 5:00pm - 6:15pm	TYD 2102

HESP411 **Introduction to Audiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to the field of audiology. Evaluation and remediation of hearing handicaps.

0101	Christopher Zalewski	Seats (Total: 50)
	TuTh 5:00pm - 6:15pm	ASY 1213

HESP417 **Principles and Methods in Speech-Language Pathology and Audiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HESP400 and HESP411; and 1 course with a minimum grade of C- from (HESP402, HESP404, HESP406, HESP410). Or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

The principles underlying the treatment of speech, language and hearing disorders in children and adults.

0101	Kathryn Dow-Burger, Sarah Thibeau, Lisa Rickard	Seats (Total: 60)
	MWF 1:00pm - 1:50pm	SQH 1119

HESP469 **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469A **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469B **Honor Thesis Research**

Credits: 1-3 Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP498 **Seminar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in human communication and its disorders.

Contact department for information to register for this course.

HESP499 **Independent Study; Topics in the Hearing and Speech Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP499H **Independent Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP600 **Instrumentation in Hearing and Speech Sciences**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Types and principles of operation of electronic equipment used in the hearing and speech sciences.

Offered Fall only.

0101	Matthew Goupell	Seats (Total: 10)
	W 3:30pm - 6:00pm	KEY 0119

HESP606 **Basic Hearing Measurements**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP411; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Theoretical principles, methodology, and interpretation of routine audiometric tests, including pure tone, speech, and acoustic immittance measures. Modification of procedures for special populations. Equipment calibration and mass hearing screening programs.

0101	Sandra Gordon-Salant	Seats (Total: 30)
	Th 3:30pm - 6:00pm	LEF 0135

HESP612 **Fluency Disorders**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

The nature of fluency disorders. Principles, methods and procedures for the clinical management of fluency disorders in children and adults.

0101	Vivian Sisskin	Seats (Total: 25)
	Tu 1:00pm - 3:30pm	LEF 0135

HESP616 **Language Disorders in Children**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP400; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Theoretical, empirical and clinical perspectives on language disorders in children.

0101	Karen Fallon Th 1:00pm - 3:30pm	Seats (Total: 20) LEF 0135

HESP622 **Neuromotor Disorders of Speech**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Effects of neuropathology on speech production. Classification and assessment of the resultant disorders and their treatment.

0101	Nancy Solomon Tu 6:45pm - 9:30pm	Seats (Total: 25) LEF 0135

HESP624 **Voice Disorders**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Hearing & Speech Sciences department.

Etiological characteristics, assessment and treatment of phonatory disorders in children and adults.

0101	Kristine Teets, Marissa Simpson Th 4:00pm - 6:30pm	Seats (Total: 20) TYD 2102

HESP630 **Electrophysiological Measurements**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Principles and techniques of physiological and electrophysiological measures of the audio-vestibular mechanisms.

Offered fall only.

0101	Samira Anderson M 3:30pm - 6:00pm	Seats (Total: 10) LEF 0104A

HESP638 **Research Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP645 **Pediatric Audiology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Evaluation and treatement of hearing-impaired children.

Offered Fall only.

0101	Claire Buxton W 3:30pm - 6:00pm	Seats (Total: 10) LEF 0135

HESP648A **Clinical Practice in Speech; Diagnostic Procedures**

(Perm req)

Credits: 1 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

1901	Colleen Worthington Contact instructor or department for details.	Seats (Total: 7)
2101	Vivian Sisskin Contact instructor or department for details.	Seats (Total: 7)
2701	Rebecca Lower Contact instructor or department for details.	Seats (Total: 7)
2801	Eusabia Mont Contact instructor or department for details.	Seats (Total: 7)
3601	Kristin Slawson Contact instructor or department for details.	Seats (Total: 7)

3701	Kathryn Dow-Burger	Seats (Total: 7)	
	Contact instructor or department for details.		

HESP648B **Clinical Practice in Speech; Therapeutic Procedures**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

2101	Vivian Sisskin	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
2701	Rebecca Lower	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
2801	Eusabia Mont	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
3601	Kristin Slawson	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
3701	Kathryn Dow-Burger	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab

HESP649A **Clinical Practice in Audiology; Diagnostic Audiology**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP649B **Clinical Practice in Audiology; Aural Rehabilitation**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP700 **Hearing Aids**

Credits: 3

Grading Method: Regular, Audit

Principles, methods and procedures for selection, fitting, calibration and management of amplification systems for hearing-impaired children and adults.

0101	Margaret McCabe, LaGuinn Sherlock Tu 4:15pm - 6:45pm	Seats (Total: 10) LEF 0135

HESP702 **Diagnostic Procedures in Speech-Language Pathology**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Diagnostic tools and methods in the analysis of speech-language disorders in children and adults.

0101	Colleen Worthington Tu 9:30am - 12:00pm	Seats (Total: 30) LEF 0135

HESP708 **Independent Study**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP710 **Industrial and Environmental Noise Problems**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor.

Evaluation and control of noise hazards. Effects of noise on man. Medico-legal aspects of noise-induced hearing impairment.

0101	Samira Anderson Tu 5:00pm - 7:30pm	Seats (Total: 20) LEF 0104A

HESP722 **Psychoacoutics**

Credits: 3

Grading Method: Regular, Audit

Auditory perception and auditory processing in normal and impaired hearing.

0101	Matthew Goupell Tu 3:30pm - 6:00pm	Seats (Total: 15) ARC 1123

HESP728 **Advanced Clinical Practice in Speech; Advanced Graduate Laboratory Practicum in Speech-Language Pathology**

(Perm req)

Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

Contact department for information to register for this course.

HESP729 **Advanced Clinical Practice in Audiology; Advanced Graduate Laboratory Practicum in Audiology**

(Perm req)

Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

1301	Margaret McCabe TBA Contact instructor or department for details.	Seats (Total: 10) LEF 0135

HESP788 **Graduate Research Externship**

Credits: 1-3 Grading Method: Regular, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HESP818D **Seminar in Language Processing; Language Development**

Credits: 3 Grading Method: Regular

Information processing models of language, relationships among language memory and cognition.

0101	Yi Ting Huang	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	JMZ 1117

HESP829 **Clinical Internship Residency**

Credits: 1-9 Grading Method: Regular, Audit

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

1301	Margaret McCabe	Seats (Total: 30)
	Contact instructor or department for details.	

HESP849 **Capstone Research Project I**

Credits: 2 Grading Method: Regular

First of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves individual study and/or supervised lab work with mentor, preparation of research proposal (including IRB protocol if required), and attendance at Capstone Research Project Workshop.

Contact department for information to register for this course.

HESP859 **Capstone Research Project II**

Credits: 1-2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Contact department for information to register for this course.

HESP889 **Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HESP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HHUM Honors Humanities Fall 2015

HHUM105 **Honors Humanities: Introduction to the Arts and Humanities**

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU

Restriction: Must be an entering freshmen in the Honors Humanities Program. Credit only granted for: ARHU105 or HHUM105. Formerly: ARHU105.

Introduction to the university, the different fields of the arts and humanities, and the history of how the university and the humanities have evolved across the world from ancient times to the present. Primary emphasis on reading and discussion of literary artifacts to assess the meaning and social status of the arts and humanities in the past and their personal and social value for the future.

0101	Gregory Staley Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 20) SQH 1119 ASY 3217	Discussion
0102	Gregory Staley Tu 9:30am - 10:45am Th 3:30pm - 4:45pm	Seats (Total: 20) SQH 1119 TLF 1103	Discussion

HHUM205 **Second Year Seminar in Honors Humanities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DVUP

Credit only granted for: ARHU205 or HHUM205. Formerly: ARHU205.

Seminar on basic issues and methodologies in the humanities and arts.

0101	Sara Schotland Th 2:00pm - 4:30pm	Seats (Total: 22) ANA 0120	
0201	Ingrid Satelmajer MW 2:00pm - 3:15pm	Seats (Total: 22) ANA 0120	

HHUM328 **Internship in Honors Humanities**

Credits: 1-3 Grading Method: Regular

Supervised service-learning in Honors Humanities.

0101	Gregory Staley	Seats (Total: 8)
	Contact instructor or department for details.	

HHUM329 **Undergraduate Teaching Assistantship**

Credits: 1-3 Grading Method: Regular

Supervised pedagogical service-learning in the Honors Humanities curriculum.

0101	Gregory Staley	Seats (Total: 8)
	Contact instructor or department for details.	

HISP Historic Preservation Fall 2015

HISP600 **Introductory Seminar in Historic Preservation: Theory, History and Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

An introduction to the wide range of ideas underpinning the practice of preservation covered through readings, discussions, presentations, class projects, and field trips.

0101	Dennis Pogue	Seats (Total: 25)
	W 7:00pm - 9:40pm	ARC 1101

HISP611 **Historical Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP610 or HISP611.

Research methods used by professional historic preservationists to identify and record historic structures and sites. Emphasizes inter/multidisciplinary nature of contemporary preservation practice using archival and ethnographic evidence as a basis for establishing significance.

Department permission required.

0101	Dennis Pogue	Seats (Total: 15)
	Th 7:00pm - 9:40pm	ARC 1117

HISP629 **Independent Studies in Historic Preservation**

Credits: 3 Grading Method: Regular, Audit

Individual Instruction course.

0101	Donald Linebaugh	Seats (Total: 1)
	Contact instructor or department for details.	

HISP645 **Archaeology and Preservation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619A or HISP645. Formerly: HISP619A.

An introduction to issues related to archaeological resources and preservation. Topics will include method and theory in American archaeology, archaeology in support of architectural history, archaeology and the NHPA, archaeological site preservation and conservation, and curation and collections management. Students will have a chance to work at an archaeological site to experience field excavation techniques and challenges, and will visit other archaeological sites and curation facilities in the area.

0101	Donald Linebaugh	Seats (Total: 1)
	Contact instructor or department for details.	

HISP650 **Historic Preservation Studio Workshop**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: HISP600; and permission of ARCH-Historic Preservation Program. Restriction: Must be in a major in ARCH-Historic Preservation Program.

Students carry out a group preservation project in a local community, from inception and problem formulation through completion. Guided carefully by a faculty team, students will conduct research, interact with communities, perform analyses, and propose solutions for an issue or problem of direct relevance to a local community and client group.

Department permission required.

0101	Constance Ramirez	Seats (Total: 15)
	TuTh 4:00pm - 6:40pm	ARC 1117

HISP655 **American Vernacular Architecture**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP655 or HISP619V. Formerly: HISP619V.

History, theory, and practice of American vernacular architecture including a review of common building technologies, structure, and style, and focusing on methods and approaches for recording, documenting and analyzing these historic resources.

Prerequisite: permission of department. Class will meet some sessions at Bostwick House.

0101	Donald Linebaugh Tu 7:00pm - 9:40pm	Seats (Total: 15) ARC 1117

HISP660 **Internship in Historic Preservation**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.

Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.

0101	Donald Linebaugh Contact instructor or department for details.	Seats (Total: 10)

HISP680 **Preservation Economics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619N or HISP680. Formerly: HISP619N.

Students are introduced to a range of economic theories, methods, and issues that must be considered in the practice of historic preservation. Case studies related to community economic development, adaptive reuse, tax credit programs, project finance, and land use will be presented.

0101	Constance Ramirez, John Sprinkle M 7:00pm - 9:40pm	Seats (Total: 15) ARC 1117

HISP701 **Certificate Portfolio Project**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

Students will gather samples of their work and craft a synthetic statement on their experiences in their HISP certificate courses (for example, picking up on themes such as community involvement, diversity of practice, affordable housing, or sustainability), and the ways in which they have integrated historic preservation into their thinking and practice in their home discipline.

Department permission required.

0101	Donald Linebaugh	Seats (Total: 10)
	Contact instructor or department for details.	

HISP710 **Final Project in Historic Preservation I**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP710. Formerly: HISP700.

An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part one of a two-semester sequence and involves developing the project proposal and bibliography.

Department permission required.

0101	Dennis Pogue	Seats (Total: 10)
	W 4:30pm - 6:00pm	ARC 1117

HISP711 **Final Project in Historic Preservation II**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Credit only granted for: HISP700 or HISP711. Formerly: HISP700.

An independent, applied research project invesitgating the preservation of a particular site or a specialized issue in historic preservation. This is part two of a two semester sequence and involves project research and writing.

Department permission required.

0101	Dennis Pogue	Seats (Total: 10)
	Contact instructor or department for details.	

HIST History Fall 2015

HIST106 **American Jewish Experience**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DVUP

Also offered as: JWST141. Credit only granted for: HIST106 or JWST141.

History of the Jews in America from colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.

0101	Marsha Rozenblit TuTh 11:00am - 12:15pm	Seats (Total: 33) TLF 2103	

HIST110 **The Ancient World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Interpretation of select literature and art of the ancient Mediterranean world with a view to illuminating the antecedents of modern culture; religion and myth in the ancient Near East; Greek philosophical, scientific, and literary invention; and the Roman tradition in politics and administration.

0101	Arthur Eckstein MW 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0102	Arthur Eckstein MW 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 JMZ 0125	 Discussion
0103	Arthur Eckstein MW 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0104	Arthur Eckstein MW 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 JMZ 1224	 Discussion
0105	Arthur Eckstein MW 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion

0106	Arthur Eckstein MW 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0124	Discussion
0107	Arthur Eckstein MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0124	Discussion
0108	Arthur Eckstein MW 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion

HIST111 **The Medieval World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DVUP

The development of Europe in the Middle Ages; the role of religious values in shaping new social, economic, and political institutions; medieval literature, art and architecture.

0101	Colleen Ho MW 1:00pm - 1:50pm M 9:00am - 9:50am	Seats (Total: 20) ASY 2203 TLF 1101	Discussion
0102	Colleen Ho MW 1:00pm - 1:50pm M 11:00am - 11:50am	Seats (Total: 20) ASY 2203 KEY 0120	Discussion
0103	Colleen Ho MW 1:00pm - 1:50pm M 12:00pm - 12:50pm	Seats (Total: 20) ASY 2203 KEY 0120	Discussion
0104	Colleen Ho MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 20) ASY 2203 KEY 0120	Discussion
0105	Colleen Ho MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 20) ASY 2203 KEY 0120	Discussion

0106	Colleen Ho MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 20) ASY 2203 KEY 0125	Discussion
0107	Colleen Ho MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2203 KEY 0103	Discussion
0108	Colleen Ho MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ASY 2203 KEY 0103	Discussion

HIST113 **The Making of Modern Europe**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Evolution of modern nation states since late medieval times. Industrial-economic structure and demography. Emergence of modern secular society.

0101	Piotr H Kosicki MW 1:00pm - 2:00pm Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0102 KEY 0121	Discussion
0102	Piotr H Kosicki MW 1:00pm - 2:00pm Tu 2:00pm - 2:50pm	Seats (Total: 20) KEY 0102 LEF 2208	Discussion
0103	Piotr H Kosicki MW 1:00pm - 2:00pm Th 11:00am - 11:50am	Seats (Total: 20) KEY 0102 KEY 0117	Discussion
0104	Piotr H Kosicki MW 1:00pm - 2:00pm Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0102 KEY 0123	Discussion
FC01	Scott Moore MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) BPS 1236	

HIST120 **Islamic Civilization**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHU

Also offered as: RELS120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

0101	Antoine Borrut MW 9:00am - 9:50am W 10:00am - 10:50am	Seats (Total: 20) KEY 0102 KEY 0124	Discussion
0102	Antoine Borrut MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 SQH 1111	Discussion
0103	Antoine Borrut MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0102 TWS 1106	Discussion
0104	Antoine Borrut MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 WDS 1131	Discussion

HIST133 **"God Wills It!" The Crusades in Medieval and Modern Perspectives**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST133, HIST289D, or RELS289D. Formerly: HIST289D.

An examination of the identities and convictions both of the Western Europeans who participated in the Crusades and of the Easterners (Muslim, Christian, and Jewish) whom they encountered in the Holy Land. Focuses on the era of the first four great Crusades, from about 1095 to 1215. Consideration of the cultural impact of these movements on both Western Europe and the Middle East.

Also offered as RELS289D.

0101	Colleen Ho MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0124	Discussion

0102	Colleen Ho MW 10:00am - 10:50am M 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 ASY 3221	Discussion
0103	Colleen Ho MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 JMZ 0118	Discussion
0104	Colleen Ho MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0123	Discussion
0105	Colleen Ho MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0106	Colleen Ho MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0120	Discussion

HIST134 **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

0101	Michael Ross TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 KEY 0119	Discussion
0102	Michael Ross TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0119	Discussion
0103	Michael Ross TuTh 12:30pm - 1:20pm W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 PLS 1184	Discussion

0104	Michael Ross TuTh 12:30pm - 1:20pm Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 CHE 2116	Discussion
0105	Michael Ross TuTh 12:30pm - 1:20pm W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0106	Michael Ross TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0126	Discussion

HIST134S **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHU, SCIS

Examination of some of the most famous trials in American history and their enduring hold on the imagination.

Restricted to students in College Park Scholars-Justice and Legal Thought program.

0201	Michael Ross TuTh 12:30pm - 1:20pm F 9:00am - 9:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion
0202	Michael Ross TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion
0203	Michael Ross TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 22) KEY 0106 CBD 1140	Discussion

HIST135 **Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP, SCIS

An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.

0101	Bernard Cooperman TuTh 9:30am - 10:20am W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 LEF 1222	Discussion
0102	Bernard Cooperman TuTh 9:30am - 10:20am W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0103	Bernard Cooperman TuTh 9:30am - 10:20am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 ASY 3217	Discussion
0104	Bernard Cooperman TuTh 9:30am - 10:20am M 10:00am - 10:50am	Seats (Total: 20) KEY 0106 SYM 0215	Discussion
0105	Bernard Cooperman TuTh 9:30am - 10:20am M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 WDS 1130	Discussion
0106	Bernard Cooperman TuTh 9:30am - 10:20am M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0119	Discussion

HIST141 **Carbon: Element at the Center of History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST289B or HIST141. Formerly: HIST289B.

Traces the history of the "carbon" economy and its impacts from the Industrial Revolution to the present; treats the role of modern dependence on fossil fuels and their role in geopolitics.

0101	Robert Friedel MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) KEY 1117 ASY 3221	Discussion
0102	Robert Friedel MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 20) KEY 1117 CHE 2116	Discussion

0103	Robert Friedel MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) KEY 1117 LEF 1222	Discussion

HIST142 **Looking at America through a Global Lens**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Credit only granted for: HIST289I or HIST142. Formerly: HIST289I.

Looking at America will focus on a thematic approach to the study of foreign -- negative and positive -- perceptions of America in the 20th century.

BL01	Saverio Giovacchini Tu 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 40) SQH 1117 ONLINE	

HIST189C **Topics in History; Fighting Slavery**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Thematic exploration of a topic in history at an introductory level with emphasis on understanding what historians do and how history is relevant in the contemporary world.

0101	Richard Bell MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 20) KEY 1117 CHM 0128	Discussion
0102	Richard Bell MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) KEY 1117 WDS 1130	Discussion
0103	Richard Bell MW 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 1117 LEF 2208	Discussion

HIST200 **Interpreting American History: Beginnings to 1877**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

0101	Robert Chiles MW 1:00pm - 1:50pm M 12:00pm - 12:50pm	Seats (Total: 18) KEY 0106 KEY 0121	 Discussion
0102	Robert Chiles MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 18) KEY 0106 KEY 0117	 Discussion
0103	Robert Chiles MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 18) KEY 0106 KEY 0103	 Discussion
0104	Robert Chiles MW 1:00pm - 1:50pm M 2:00pm - 2:50pm	Seats (Total: 18) KEY 0106 LEF 1222	 Discussion
0105	Robert Chiles MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 18) KEY 0106 KEY 0103	 Discussion
0106	Robert Chiles MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 18) KEY 0106 TLF 1103	 Discussion
0107	Robert Chiles MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 18) KEY 0106 KEY 0121	 Discussion
0108	Robert Chiles MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 18) KEY 0106 LEF 1220	 Discussion
FC01	Richard Bell MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) SKN 0104	

HIST201 Interpreting American History: From 1865 to the Present

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SH	General Education: DSHS, DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

0101	Edwin Smead MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 18) KEY 0106 KEY 0116	 Discussion
0102	Edwin Smead MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 18) KEY 0106 KEY 0116	 Discussion
0103	Edwin Smead MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 18) KEY 0106 KEY 0121	 Discussion
0104	Edwin Smead MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 18) KEY 0106 WDS 0104	 Discussion
0105	Edwin Smead MW 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 18) KEY 0106 KEY 0124	 Discussion
0106	Edwin Smead MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 18) KEY 0106 KEY 0120	 Discussion
0107	Edwin Smead MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 18) KEY 0106 KEY 1117	 Discussion
0108	Edwin Smead MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 18) KEY 0106 WDS 0104	 Discussion
0109	Edwin Smead MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0116	 Discussion

0110	Edwin Smead MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0123	 Discussion
0111	Edwin Smead MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0112	Edwin Smead MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0201	Robert Chiles TuTh 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 WDS 1127	 Discussion
0202	Robert Chiles TuTh 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 JMZ 1215	 Discussion
0203	Robert Chiles TuTh 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 20) KEY 0106 BPS 1228	 Discussion
0204	Robert Chiles TuTh 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 KEY 0117	 Discussion
0205	Robert Chiles TuTh 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0206	Robert Chiles TuTh 11:00am - 11:50am W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion
0207	Robert Chiles TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0121	 Discussion

0208	Robert Chiles TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 1117	Discussion
FC01	Thomas Castillo TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TLF 1103	
FC02	Robert Chiles TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) KEY 0121	

HIST204 **Introduction to the History of Science**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Credit only granted for: HIST174 or HIST204. Formerly: HIST174.

An exploration of the roots of modern science from the ancient Greeks through the medieval and early modern periods. Focus on the men and women who helped to create the sciences and to change public perceptions of their disciplines.

0101	David Cantor MW 3:00pm - 3:50pm W 9:00am - 9:50am	Seats (Total: 20) KEY 0102 KEY 0125	Discussion
0102	David Cantor MW 3:00pm - 3:50pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 KEY 0124	Discussion
0103	David Cantor MW 3:00pm - 3:50pm F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 KEY 0117	Discussion
0104	David Cantor MW 3:00pm - 3:50pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0102 KEY 0119	Discussion
FC01	John Matthews TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 29) SQH 1103	

HIST205 **Environmental History**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

An exploration of the way different societies have used, imagined, and managed nature. Includes examination of questions of land use, pollution, conservation, and the ideology of nature, especially but not exclusively in Europe and North America.

0101	Thomas Zeller TuTh 12:30pm - 1:45pm	Seats (Total: 39) TYD 0101

HIST208B **Historical Research and Methods Seminar; The United States After the Civil Rights Movement**

(Perm req)

Credits: 3 | Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Robert Bland M 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Robert Bland W 4:00pm - 5:50pm Contact instructor or department for details.	Seats (Total: 12) TLF 2103

HIST208O **Historical Research and Methods Seminar; Imagining the Middle East, Imagining Europe: History, Politics, and Propaganda**

(Perm req)

Credits: 3 | Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Christiane Abu Sarah W 9:00am - 10:50am Contact instructor or department for details.	Seats (Total: 12) TLF 2103
0102	Christiane Abu Sarah W 12:00pm - 1:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST208R **Historical Research and Methods Seminar; Latin America in the Age of Revolution**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Jesse Zarley Tu 9:30am - 11:20am Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Jesse Zarley M 11:00am - 12:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST208V **Historical Research and Methods Seminar; Consumer Culture and Social Change in the Americas**

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: permission of department.

0101	Shawn Moura Th 11:00am - 12:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107
0201	Shawn Moura Th 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST219X **Special Topics in History; Modern Iran**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as HIST219X. Credit granted for PERS251 or HIST219X. General sociopolitical introduction to modern Iran from establishment of the Qajar dynasty in the late 18th century to the present day. Taught in English.

0101	Ida Meftahi TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMZ 0208

HIST219Z **Special Topics in History; The Devil in the Western Imagination**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

0101	Andrew Kellett M 4:00pm - 5:15pm Class time/details on ELMs	Seats (Total: 40) KEY 0103 ONLINE

HIST224 **Modern Military History, 1494-1815**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Survey of the military history of Europe through an examination of the economic, financial, strategic, tactical, and technological aspects of the development of military institutions and warfare from the dynastic wars of the Valois and Habsburgs to the national wars of the French Revolution and Napoleonic Empire.

0101	Jon Sumida MWF 10:00am - 10:50am	Seats (Total: 60) KEY 0102

HIST232 **The Historical Development of London**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

Restriction: Permission of Study Abroad Office required. Credit only granted for: GNED288 and HIST232. Formerly: GNED288.

Study Abroad in London, England. The history of London, beginning with its foundation by the Romans, continuing with the city's progressive political and cultural domination of England, the British Isles and the British Empire, and concluding with a look at the city in the 20th century. Students look at London through the eyes of contemporaries and historians while forming their own impressions of the city during course-based walking tours of the city.

Contact department for information to register for this course.

HIST233 **Empire! The British Imperial Experience 1558-1997**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Credit only granted for: HIST219P or HIST233. Formerly: HIST219P.

Britain's empire from the mid-sixteenth century to the late twentieth century, focusing on the encounter between Britain and indigenous peoples. Topics include the origins of British imperialism in Ireland and North America, the slave trade, the East India Company and India, women in empire, transportation and the making of Australia, sex in empire, missionaries, racial theories, and decolonization.

0101	Richard Price	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0102

HIST234 **History of Britain to 1485**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

British history from Roman times to the 15th century. The Anglo-Saxon, Scandinavian, and Norman invasions; the coming of Christianity; Magna Carta, the development of Parliament, legal institutions, and the Common Law; the decline of medieval kingship.

0101	Sabrina Baron	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0126

HIST250 **Colonial Latin America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Also offered as: LASC250. Credit only granted for: HIST250 or LASC250.

Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.

0101	David Sartorius	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0116

HIST254 **African-American History to 1865**

Credits: 3 | Grading Method: Regular, Pass-Fail

Survey of the principal developments in the history and culture of the peoples of African descent in colonial North America and the United States to 1865. Examines the African past, the Atlantic slave trade, variation in slavery, the growth of free black communities, the transformations of families and cultural forms, and patterns of resistance.

Also offered as AASP298C. Credit will be granted for AASP298C or HIST 254.

0101	Dennis Doster	Seats (Total: 40)
	TuTh 5:00pm - 6:15pm	KEY 0116

HIST269M **Special Topics in Study Abroad II; History of Modern Italy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269Y **Special Topics in Study Abroad II; Rome: Republic and Empire**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST284 **East Asian Civilization I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

An interdisciplinary survey of the development of East Asian cultures. An historical approach drawing on all facets of East Asian traditional life, to gain an appreciation of the different and complex cultures of the area.

0101	Ting Zhang MW 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 20) KEY 0102 WDS 1131	Discussion
0102	Ting Zhang MW 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 20) KEY 0102 KEY 0119	Discussion
0103	Ting Zhang MW 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 20) KEY 0102 LEF 1221	Discussion
0104	Ting Zhang MW 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 20) KEY 0102 KEY 0125	Discussion

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HIST286 **The Jew and the City through the Centuries**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SH, D | General Education: DSHS, DVUP

Also offered as: JWST275. Credit only granted for: HIST286 or JWST275.

Jewish urban experience from ancient times to the present. Public space and private space. The city and the sacred. Jewish ghettos and quarters. The struggle over modern Jerusalem.

Also offered as JWST275. Credit will be granted only to HIST286 or JWST275.

0101	Bernard Cooperman TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0102 JMZ 1117	Discussion
0102	Bernard Cooperman TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0102 TYD 1132	Discussion
0103	Bernard Cooperman TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 LEF 1221	Discussion
0104	Bernard Cooperman TuTh 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 20) KEY 0102 SQH 1123	Discussion

HIST287 **Why the Jews? Historical and Cultural Investigations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Restriction: Must not have completed HIST282, HIST283, JWST234, or JWST235. Also offered as: JWST233. Credit only granted for: HIST287 or JWST233.

Examines the history and culture of the Jews from the thirteenth century BCE/BC to the present through an examination of significant themes or problems (such as "religion" or "diaspora") that shape our understanding of the Jewish people. A primary focus in the course will be on texts, artifacts, and other cultural products by Jews and others that illustrate the history of the Jews help understand their cultural heritage.

0101	Hayim Lapin TuTh 12:30pm - 1:20pm M 11:00am - 11:50am	Seats (Total: 20) KEY 0102 TYD 1114	Discussion
0102	Hayim Lapin TuTh 12:30pm - 1:20pm M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 EGR 1102	Discussion

0103	Hayim Lapin TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0102 KEY 0124	Discussion

HIST289C **Mirror of Democracy: The Golden Age of Athens**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

0101	Elizabeth Conner TuTh 3:30pm - 4:20pm W 9:00am - 9:50am	Seats (Total: 20) SQH 1119 TLF 1101	Discussion
0102	Elizabeth Conner TuTh 3:30pm - 4:20pm W 10:00am - 10:50am	Seats (Total: 20) SQH 1119 TLF 1101	Discussion
0103	Elizabeth Conner TuTh 3:30pm - 4:20pm Th 12:00pm - 12:50pm	Seats (Total: 20) SQH 1119 KEY 0119	Discussion

HIST289O **Lawlessness: From Pirates to Body-snatchers, Exploring the Legitimacy of Illicit Activity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

From pirates to body-snatchers, raceteers to smugglers- tales of lawlessness provoke strong reactions, be they delight, fascination or disgust. Yet how often do we seriously assess the meaning and legitimacyof the illicit activities that provide spice to such stores? Ranging from the 1600s to the present and from the Caribbean to Britain, Africa, and Asia the course will focus on specific instances of lawless behavior. Students will explore the motives of those engaged in illicit activity, tease out different understandings of lawlessness, and consider responses to lawless behavior in both past and present. Among the issues addressed will be the influence of legend and reality, the tensions between national sovereignty and international security, debates over human and property rights, and concerns about personal freedom, scientific progress, and community survival.

FC01	Anne Rush TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) ARC 1101	

HIST289Y **Zombies, Fear, and Contagion: A Cultural History of Public Health, Medicine, and Technology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Historically examines how our fear of zombies reflects changing fears about the body, and anxieties about western medical and technological advancements.

0101	Chantel Rodriguez TuTh 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 KEY 0116	Discussion
0102	Chantel Rodriguez TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 KEY 1117	Discussion
0103	Chantel Rodriguez TuTh 11:00am - 11:50am Th 3:30pm - 4:20pm	Seats (Total: 20) KEY 0102 KEY 0121	Discussion

HIST299 **Directed Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Closely guided research in primary sources for students currently enrolled in selected 100- or 200-level surveys in the Department of History.

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST306 **History of Religion in America**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST201, HIST210, HIST211, HIST213, HIST254, or HIST255; or must have completed HIST156 or HIST157; or permission of instructor. Also offered as: RELS346. Credit only granted for: HIST306 or RELS346.

A history of religion, religious movements, and churches in America from the early Colonial period to the present, with special attention to the relation between church and society.

0101	Miles Bradbury TuTh 2:00pm - 3:15pm	Seats (Total: 27) TLF 1103	

HIST310 **History of South Africa**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Formerly: HIST419E.

Explores the roots of Apartheid and the anti-Apartheid movement from precolonial times to the present: the social history of work and identity, the rise of kingdoms (Zulu, Sotho), conquest and colonial administration, urban and rural mass politics, gender relations, and the transition to democracy.

0101	Paul Landau MW 2:00pm - 3:15pm	Seats (Total: 36) KEY 0103

HIST319G **Special Topics in History; Law and Culture in Late Imperial China**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Ting Zhang MW 2:00pm - 3:15pm	Seats (Total: 27) TLF 1101

HIST319L **Special Topics in History; Islam: Learning, Piety, and Practice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as RELS319L and PERS398C. Credit granted for HIST319L, PERS398C or RELS319L. An examination of the formation and development of major religious and intellectual currents of Islam in historical perspective. We will cover essential sources and practices (the Qur'an and the example of Muhammad), the development of religious disciplines of learning (Qur'an and hadith studies, law and ethics, philosophical and mystical theology), everyday popular ritual and piety (popular preaching, celebration of Muhammad's birth, saint cults), sectarian/charismatic movements (Shi'is and Kharijis), as well as the social and intellectual bases of reformist thought of both liberal and conservative character in the early modern and modern eras.

0101	Ahmet Karamustafa TuTh 9:30am - 10:45am	Seats (Total: 29) TLF 2103

HIST319V **Special Topics in History; America in the 1960s**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Katarina Keane MW 3:30pm - 4:45pm	Seats (Total: 27) TLF 1101

HIST320 **Early Christianity: Jesus to Constantine**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one course in ancient history at the 200 level. Also offered as: JWST331. Credit only granted for: HIST320 or JWST331.

Social and religious history of early Christianity from its origins in the first century to the reign of Constantine.

Additional note: Also offered as RELS319C. Credit will be granted for HIST320, JWST331, or RELS319C.

0101	Hayim Lapin	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KEY 0103

HIST328A **Selected Topics in History; "Forging the Tortilla Curtain": US-Mexican Borderlands History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The historical roots of the U.S.-Mexico border and borderlands landscape, 1800-present. Emphasis on the creation and militarization of the U.S.-MX border, the effects of border-making and free-enterprise on borderlands society, the development of U.S. immigration policy at the U.S.-MX border, the challenges of globalization, and the Mexican migration experience.

0101	Chantel Rodriguez	Seats (Total: 36)
	TuTh 3:30pm - 4:45pm	KEY 0116

HIST328I **Selected Topics in History; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

HIST329F **Special Topics in History; The Roman World in Late Antiquity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Elizabeth Conner	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	SQH 1121

HIST329I **Special Topics in History; Race in Latin America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

0101	Karin Rosemblatt	Seats (Total: 36)
	TuTh 12:30pm - 1:45pm	KEY 0103

HIST329K **Special Topics in History; History of Rock and Roll, 1950 - 2000**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

SG91	Andrew Kellett	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

HIST329R **Special Topics in History; What Makes a City? Metropolitan Change in Modern America**

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

0101	David Freund	Seats (Total: 28)
	TuTh 9:30am - 10:45am	TLF 1101

HIST331 **Europe in the High Middle Ages: 1000-1500**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Also offered as: RELS341. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

0101	Janna Bianchini	Seats (Total: 36)
	MW 9:00am - 10:15am	KEY 0126

HIST332 **Renaissance Europe**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST112 or HIST111; or permission of instructor. Also offered as: RELS342. Credit only granted for: HIST332 or RELS342.

Intellectual developments in Italy and Northern Europe from 1300 to 1550 and their influence on the arts and religion; social and economic trends, including the rise of the commercial economy in cities; the family and the role of women in society; expansion of Europe overseas and the beginnings of colonization; emergence of the state and consequent changes in political theory.

0101	Stefano Villani	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	KEY 1117

HIST352 **America in the Colonial Era, 1600-1763**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST210, HIST213, or HIST254; or must have completed HIST156; or permission of instructor.

The founding of the English colonies in America and their European backgrounds, the reasons for the instability of colonial society to 1689 and the emergence of stable societies after 1689; the development of colonial regionalism, political institutions, social divisions, the economy, religion, education, urban and frontier problems in the eighteenth century.

0101	Miles Bradbury	Seats (Total: 27)
	TuTh 9:30am - 10:45am	TLF 1103

HIST353 **America in the Revolutionary Era, 1763-1815**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST200, HIST210, HIST213, HIST254, or HIST275; or must have completed HIST156; or permission of instructor.

The background and course of the American Revolution and early nationhood through the War of 1812. Emphasis on how the Revolution shaped American political and social development, the creation of a new government under the Constitution, and the challenges facing the new nation.

0101	Whitman Ridgway	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	KEY 0103

HIST356 **Emergence of Modern America, 1900-1945**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

The emergence of modern institutions and identities, 1900-1945. These institutions may include corporate enterprises and the welfare state; identities include homosexuality, the New Woman, and the New Negro.

0101	Robert Chiles	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KEY 0116

HIST357 **Recent America: 1945-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the presen with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

0101	Edwin Smead	Seats (Total: 54)
	MW 2:00pm - 3:15pm	SQH 1119

HIST369F **Special Topics in Study Abroad III; Caesar, Cicero and the Collapse of the Roman Republic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

Contact department for information to register for this course.

HIST395 **Honors Colloquium I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-History department; and must be in History program.

History and theory: the conceptual underpinnings of the historical discipline. Students evaluate several contrasting theories of history. Prerequisite for other honors courses.

0101	Stefano Villani Tu 2:00pm - 4:30pm Contact instructor or department for details.	Seats (Total: 12) TLF 2108

HIST398 **Honors Thesis I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Individual research and preparation of History Honors Theses.

Prerequisite: permission of department.

0101	Holly Brewer W 3:00pm - 5:30pm	Seats (Total: 12) TLF 2108

HIST404 **History of Modern Biology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The internal development of biology in the 19th and 20th centuries, including evolution, cell theory, heredity and development, spontaneous generation, and mechanism-vitalism controversies. The philosophical aspects of the development of scientific knowledge and the interaction of biology with chemistry and physics.

0101	Lindley Darden TuTh 3:30pm - 4:45pm	Seats (Total: 25) SKN 1115

HIST406 **History of Technology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

The changing character of technology in modern history, beginning with the Middle Ages. Concentrates on the Industrial Revolution and its aftermath, the nature of technological knowledge and the sources of technological change.

0101	Robert Friedel	Seats (Total: 22)
	MW 2:00pm - 3:15pm	TLF 2103

HIST408A **Senior Seminar; Revolutions in Africa, 1945 to the Present.**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: permission of department. Explores the history of seven revolutions in Africa after World War II: Algeria, Ghana, Nigeria, Ethiopia, Kenya, Zambia, Liberia, and South Africa. Our readings cover warfare, foreign involvement, settler-colony revolutionary change, and help us to understand the shape of Africa today.

0101	Paul Landau	Seats (Total: 12)
	M 11:00am - 12:50pm Contact instructor or department for details.	KEY 0117

HIST408B **Senior Seminar; Politics, Protests, and Social Movements in 20th Century America**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: permission of department.

0101	Robyn Muncy	Seats (Total: 12)
	Th 2:00pm - 3:50pm Contact instructor or department for details.	KEY 0119

HIST408D **Senior Seminar; Empire and Borderlands in Russia**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department.

0101	Mikhail Dolbilov Tu 3:00pm - 4:50pm Contact instructor or department for details.	Seats (Total: 12) TLF 2103

HIST408N **Senior Seminar; The American Revolution**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department

0101	Whitman Ridgway Tu 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107

HIST408R **Senior Seminar; Identity and Nationalism in Central Europe, 1848-1945**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department.

0101	Scott Moore M 2:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0117

HIST418D **Jews and Judaism: Selected Historical Topics; Hasidism and Its Opponents: Readings in Modern History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST478M. Credit granted for JWST478M or HIST418D. Text in Hebrew. Taught in English. Prerequisite: HEBR313; or permission of instructor. Readings from classical Hasidic masters (Baal Shem Tov, R. Nachman of Bratslav, the first Lubavitcher rebbe) and their opponents (R. Elijah ofVilna and Joseph Perl) in their historical context. The readings will bein Hebrew but the class will be taught in English. Vocabulary lists will be provided.

0101	Rachel Manekin MW 4:30pm - 5:45pm	Seats (Total: 15) SQH 1123

HIST419C **Special Topics in History; African American Urban History 1877-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as AASP498V. Credit granted for HIST419C or AASP498V.

0101	Kelly Quinn	Seats (Total: 36)
	W 5:30pm - 8:00pm	KEY 0102

HIST419M **Special Topics in History; Nazi Germany**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Jeffrey Herf	Seats (Total: 36)
	TuTh 9:30am - 10:45am	KEY 1117

HIST419P **Special Topics in History; Origins of Ethnic Cleansing in Russia/USSR**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Mikhail Dolbilov	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	KEY 0116

HIST427 **Age of Decline: Britain 1914 to Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

British society since the First World War. The social, cultural, economic, and political impact of the First World War; labor and politics in the 1920s and 1930s; the inter-war Depression, appeasement and foreign policy; the social impact of the Second World War; the welfare state and nationalization of industry; the dissolution of Empire; the emergence of a consumer society; social criticism in the 1950s; the economic and political problems of the 1960s and 1970s.

0101	Richard Price	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	SQH 1105

HIST428B **Selected Topics in History; France in the Revolutionary Century: How France Became a Democracy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Donald Sutherland TuTh 3:30pm - 4:45pm	Seats (Total: 36) KEY 0126

HIST428M **Selected Topics in History; Foreigners as Citizens: Recording Oral Histories of Immigration**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Explores the impact of immigration on the society and culture of the United States and originating societies; focus on issues of citizenship, cultural negotiation, and transnationalism. Students utilize the practice of oral history to contextualize the experiences of migrants to the Washington DC area since the mid-twentieth century in projects based on engagement with local immigrants. Interviews with migrants will be archived by the Center for History in the New America, allowing students to directly contribute to ongoing research on migration.

0101	Anne Rush TuTh 12:30pm - 1:45pm	Seats (Total: 18) TLF 1103

HIST429A **Special Topics in History; Society and Culture in Victorian Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Julie Taddeo TuTh 11:00am - 12:15pm	Seats (Total: 27) KEY 0126

HIST429P **Special Topics in History; Japanese Empire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Charles Lilley MWF 11:00am - 11:50am	Seats (Total: 36) KEY 0103

HIST429X **Special Topics in History; Religious Movements in European Jewish History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST347 and RELS419R. Credit will be granted for only one of the following: HIST429X, JWST347, or RELS419R. An exploration of the history of the different modern Jewish religious movements that developed in Europe, starting with messianic movements and ending with Reform and Orthodoxy. Emphasis will be placed on the influence of the academic study of Judaism on the development of modern Jewish religious ideologies and practices.

0101	Rachel Manekin MW 2:00pm - 3:15pm	Seats (Total: 40) SQH 1101

HIST429Y **Special Topics in History; Islamic Memory: The Prophet Muhammad and the Founding Generations of Islam**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Antoine Borrut W 11:00am - 1:00pm Contact instructor or department for details.	Seats (Total: 13) TLF 2103

HIST430 **Tudor England**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An examination of the political, religious, and social forces in English life, 1485-1603, with special emphasis on Tudor government, the English reformation, and the Elizabethan era.

0101	Sabrina Baron TuTh 11:00am - 12:15pm	Seats (Total: 36) KEY 0125

HIST433 **Strategic Military Theory: Clausewitz**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: HIST419J or HIST433. Formerly: HIST419J.

An exploration of Clausewitzian thought. Topics include the conduct of fighting and war planning, the relationship of war and politics, guerrilla war, the principles of concentration of force, the Clausewitzian trinity, absolute war and real war, unlimited and limited war, the relative strengths of the defense and the attack, and the intuitive sources of strategic decision.

0101	Jon Sumida MW 2:00pm - 3:15pm	Seats (Total: 22) KEY 0119

HIST447 **Riot, Law, and Justice in European History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: HIST428C or HIST447. Formerly: HIST428C.

An examination of the role of violence and the attempt of law to contain or punish it. Major interpretations of societal codes of honor, retribution, and punishment, and how violence is governed by these codes.

0101	Donald Sutherland	Seats (Total: 16)
	Tu 9:30am - 12:00pm	TLF 2108

HIST452 **Diplomatic History of the United States to 1914**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

American foreign relations from the American Revolution to the beginning of World War I. International developments and domestic influences that contributed to American expansion in world affairs. Analyses of significant individuals active in American diplomacy and foreign policy.

0101	Colleen Woods	Seats (Total: 28)
	TuTh 11:00am - 12:15pm	TLF 1101

HIST454 **Constitutional History of the United States: From Colonial Origins to 1865**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The interaction of government, law, and politics in the constitutional system. The nature and purpose of constitutions and constitutionalism; the relationship between the constitution and social forces and influences, the way in which constitutional principles, rules, ideas, and institutions affect events and are in turn affected by events. The origins of American politics and constitutionalism through the Constitutional Convention of 1787. Major constitutional problems such as the origins of judicial review, democratization of government, slavery in the territories, secession, and civil war.

0101	Michael Ross	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KEY 0126

HIST467 **Women and Reform Movements in the Twentieth-Century United States**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: HIST201, HIST211, or HIST255. Credit only granted for: HIST467 or HIST429E. Formerly: HIST429E.

Investigation of women's participation in such twentieth-century reform movements as the labor movement, the struggle for racial justice, social welfare reform, and women's movements. Will ask how race, class, and gender were implicated in the ways that women agitated for social political change.

0101	Robyn Muncy	Seats (Total: 36)
	TuTh 12:30pm - 1:45pm	KEY 1117

HIST481 **A History of Modern China**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Modern China from 1644 to the People's Republic of China. Emphasis on the coming of the West to China and the various stages of the Chinese reaction.

0101	James Gao	Seats (Total: 36)
	TuTh 9:30am - 10:45am	KEY 0116

HIST482 **History of Japan to 1800**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Traditional Japanese civilization from the age of Shinto mythology and introduction of continental learning down to the rule of military families, the transition to a money economy, and the creation of a townsmen's culture. A survey of political, economic, religious, and cultural history.

0101	Charles Lilley	Seats (Total: 28)
	MW 2:00pm - 3:15pm	TLF 1103

HIST484 **Cultural History of the Chinese Revolutions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: HIST481 or HIST285. Credit only granted for: HIST419G or HIST484. Formerly: HIST419G.

Examines the cultural origins, experience, and results of the Cultural Revolution in China.

0101	James Gao	Seats (Total: 36)
	TuTh 12:30pm - 1:45pm	KEY 0116

HIST491 **History of the Ottoman Empire**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Survey of the Ottoman Turkish Empire from 1300 A.D. to its collapse during World War I. Emphasis on the empire's social and political institutions and its expansion into Europe, the Arab East and North Africa.

0101	Madeline Zilfi	Seats (Total: 36)
	TuTh 9:30am - 10:45am	KEY 0103

HIST492 **Women and Society in the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: Must have completed prior coursework in Middle East studies or gender studies. Also offered as: WMST456. Credit only granted for: HIST492 or WMST456.

Examines the customs, values, and institutions that have shaped women's experience in the Middle East in the past and in the contemporary Middle East.

0101	Madeline Zilfi	Seats (Total: 18)
	Th 2:00pm - 4:00pm Contact instructor or department for details.	TLF 2103

HIST495 **Women in Medieval Culture and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: WMST455. Credit only granted for: HIST495 or WMST455.

Medieval women's identity and cultural roles: the condition, rank and rights of medieval women; their access to power; a study of women's writings and the constraints of social constructs upon the female authorial voice; and contemporary assumptions about women.

0101	Janna Bianchini	Seats (Total: 30)
	MW 2:00pm - 3:15pm	SQH 1103

HIST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST601 **History and Contemporary Theory**

Credits: 3 Grading Method: Regular, Audit

An introduction to contemporary theories in philosophy, literary criticism, cultural studies, anthropology, and other fields; and analysis of their usefulness to historians.

0101	Karin Rosemblatt Th 3:30pm - 6:00pm	Seats (Total: 15) TLF 2108

HIST607 **The Teaching of History in Institutions of Higher Learning**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

0101	Marsha Rozenblit Contact instructor or department for details.	Seats (Total: 15)
0201	Robyn Muncy Contact instructor or department for details.	Seats (Total: 6)

HIST608A **General Seminar; American History**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

General seminar in student's major field of study (e.g., U.S.; Women an Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

Prerequisite: permission of department.

0101	Holly Brewer Th 3:30pm - 6:00pm	Seats (Total: 15) TLF 2100

HIST608D **General Seminar; Middle East History**

Credits: 3 Grading Method: Regular, Audit

General seminar in student's major field of study (e.g., U.S.; Women an Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

0101	Ahmet Karamustafa W 3:30pm - 6:00pm	Seats (Total: 10) TLF 2100

HIST619A **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619B **Special Topics in History; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619C **Special Topics in History; Civil Rights Movement**

Credits: 1-3 Grading Method: Regular, Audit

0101	Elsa Barkley Brown Th 6:00pm - 8:30pm	Seats (Total: 15) TLF 2100

HIST619E **Special Topics in History; Readings in Middle East History: Parties, Ideologies, and POpular Movements in the Modern Middle East**

Credits: 1-3 Grading Method: Regular, Audit

0101	Peter Wien Th 3:30pm - 6:00pm	Seats (Total: 12) TLF 2101

HIST619I **Special Topics in History; Caesar and Augustus**

Credits: 1-3 Grading Method: Regular, Audit

0101	Arthur Eckstein Tu 3:30pm - 6:00pm	Seats (Total: 12) TLF 2101

HIST619J **Special Topics in History; US in the World**

Credits: 1-3 Grading Method: Regular, Audit

0101	Colleen Woods	Seats (Total: 12)
	Tu 6:00pm - 8:30pm	TLF 2108

HIST619X **Special Topics in History; History of North American Slavery in Comparative Perspective**

Credits: 1-3 Grading Method: Regular, Audit

0101	Ira Berlin	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	TLF 2100

HIST708 **Directed Independent Reading for Comprehensive Examinations I**

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST709 **Directed Independent Reading for Comprehensive Examinations II**

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST720 **Readings in the History of the Catholic Church**

Credits: 3 Grading Method: Regular, Audit

This is graduate-level readings seminar in the modern history of the Catholic Church. We will begin with the Reformation and proceed through the present day. This course will combine European history with global history, looking both at how the Church changed in the face of major turning points in modern European history (the Scientific, French, and Russian Revolutions; the two world wars; and the Cold War) and at its missionary encounters and long-term presence across the world (in Latin America, India, China, Africa, and North America).

0101	Piotr H Kosicki	Seats (Total: 12)
	W 6:00pm - 8:30pm	TLF 2108

HIST729G **Readings in Modern European History; German History from 1871 to 1990**

Credits: 3

Grading Method: Regular, Audit

Reading knowledge of some European language recommended but not required.

0101	Jeffrey Herf	Seats (Total: 12)
	Tu 6:00pm - 8:30pm	TLF 2100

HIST799 **Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HIST810 **Museum Research Seminar**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: HIST610. Also offered as: ANTH856, AMST856. Credit only granted for: AMST856, HIST810, or ANTH856.

A research seminar focusing on the practice and presentation of cultura and historical scholarship in museums and historical sites. Students will complete an original research project on the challenges and opportunities of public exhibition and interpretation of cultural and historical research.

0101	Judith Freidenberg	Seats (Total: 15)
	Tu 1:00pm - 3:45pm	WDS 1102

HIST819A **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Department permission required.

Contact department for information to register for this course.

HIST819B **Special Topics in History: Independent Research**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.

Department permission required.

Contact department for information to register for this course.

HIST829A **Seminar in Latin American History**

Credits: 3 Grading Method: Regular, Audit

0101	David Sartorius W 3:30pm - 6:00pm	Seats (Total: 12) TLF 2101

HIST880 **Seminar in Southern History**

Credits: 3 Grading Method: Regular, Audit

0101	Leslie Rowland W 6:00pm - 8:30pm	Seats (Total: 12) TLF 2101

HIST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HIST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HLSA Health Services Administration Fall 2015

HLSA300 **Introduction to Health Policy and Services**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

This course provides a multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. Concepts such as unintended consequences, association versus causation, evidence-based information, and the challenges of deconstructing available data, will be discussed throughout the course with the purpose of strengthening student abilities to analyze and challenge assumptions. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

0101	Stephen Thomas, Luisa Franzini MWF 11:00am - 11:50am	Seats (Total: 60) CSI 3117
SG91	Sharon Barrett Th 2:00pm - 4:50pm	Seats (Total: 54) Location: TBA
	Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.	

HLSA601 **Introduction to Health Systems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed HLTH740. Credit only granted for: HLSA601, HLTH688A, or HLTH740. Formerly: HLTH688A or HLTH740.

Management and leadership skills for effective public health planning, organization, management and administration. Emphasis is on the role of institutions in learning and behavioral change process, organizational theory, administration management, and coordinating provision of community health services.

0101	Jie Chen M 1:00pm - 3:45pm	Seats (Total: 35) SPH 1303
PLH1	Negin Fouladi Class time/details on ELMs	Seats (Total: 30) ONLINE
	Restricted to students in MPH-PHPP or GC-PPH programs.	

HLSA688 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

HLSA689 **Field Work in Aging**

Credits: 1-6 Grading Method: Regular

Individual instruction course.

0201	Lori Simon-Rusinowitz	Seats (Total: 5)
	Contact instructor or department for details.	

HLSA702 **Policy and Politics of Health**

Credits: 3 Grading Method: Regular, Audit

Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.

0101	Lori Simon-Rusinowitz	Seats (Total: 20)
	W 1:00pm - 3:30pm	SPH 0301

HLSA711 **Health Economics and Analysis**

Credits: 3 Grading Method: Regular, Audit

Provides an analysis of health and health care services as economic goods. Using microeconomic theories, we will examine the behavior of health care providers, consumers, markets, and firms.

PLH1	Farah Farahati	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	Restricted to students in MPH-PHPP or GC-PPH programs.	

HLSA714 **Economic Evaluation of Medical Care**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HLSA601 and EPIB650; or students who have taken courses with comparable content may contact the department.

An overview of the theory and applications of cost-benefit analysis, cost-effectiveness analysis, and related forms of economic evaluation/decision analysis in the health care sector.

0101	Michel Boudreaux Th 3:30pm - 6:30pm	Seats (Total: 15) PHY 0405

HLSA720 **Health Law and Ethics**

Credits: 3 Grading Method: Regular, Audit

The legal system helps determine the relationships prevailing among individuals, institutions and governments by setting out the rights, duties and powers of the various parties. This course will look at some of the more important concepts the law uses within the context of health services and public health.

0101	Mathew Swinburne, William Tilburg W 4:00pm - 6:45pm	Seats (Total: 25) SPH 0303
PLH1	Arthur Reynolds Class time/details on ELMs	Seats (Total: 30) ONLINE
	Restricted to students in MPH-PHPP or GC-PPH programs.	

HLSA725 **Econometrics in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB650; or students who have taken courses with comparable content may contact the department. Additional information: priority enrollment will be given to students at the School of Public Health.

Empirical course to introduce students to econometric methods and their applications in public health.

0101	Luisa Franzini M 3:00pm - 6:00pm	Seats (Total: 15) PLS 1172

HLSA745 **Public Health Practice and Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Examines the relationship of practice and management in performing essential public health services on local, state and national levels.

PLH1	Joseph Flannery	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	Restricted to students in MPH-PHPP or GC-PPH programs.	

HLSA770 **Continuous Quality Improvement in Healthcare**

Credits: 3 Grading Method: Regular, Audit

Designed for the health care professional or administrator involved in quality assurance in health care. Course includes historical beginnings, state-of-the-art, voluntary, governmental efforts, and tools to promote quality assurance.

0101	Robert Mekelburg	Seats (Total: 20)
	M 7:00pm - 9:45pm	SPH 0301

HLSA772 **Healthcare Leadership and Communications**

Credits: 3 Grading Method: Regular, Audit

Health care administrators rely on transformational leadership skills and insights to help their organizations rise to the social financial, public health, and technological challenges of the future. Students will assess and develop their leadership strengths, apply key leadership communication principles, and critically analyze relevent leadership models, exploring their utility in addressing key leadership issues in health care organizations. An underlying theme will be the identification of core values involved in health care delivery, integration of those values in personal and organizational missions, and effective communication to stakeholders.

PSH1	Tracey Manning	Seats (Total: 20)	
	Class time/details on ELMs	ONLINE	
	Sa 9:00am - 6:00pm	Location: TBA	Discussion
	Su 9:00am - 4:00pm	Location: TBA	Discussion
	Restricted to students in MPH-PHPP or GC-PPH programs. Class discussions are scheduled to meet at the Shady Grove campus as follows: 9/12, 10/24, 12/5, 9 a.m. to 5 p.m. and 9/13, 12/6, 9 a.m. to 4 p.m.		

HLSA775 **Public Health Research**

Credits: 3 Grading Method: Regular

Prerequisite: EPIB650. Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

Provides an interdisciplinary approach to gaining an understanding of and acquiring the skills to conduct public health research. This course covers policy and social issues, theory, and methods of evaluation and participatory research, from simple community based health programs to large-scale interventions. The course emphasizes experimental and quasi-experimental designs to estimate program impact as well as evaluation of program implementation. Case studies drawn from the public health field illustrate various types of evaluations and participatory research initiatives. Lectures, interactive discussions, group projects, individual projects and related assignments.

0101	Rada Dagher Tu 1:00pm - 3:45pm	Seats (Total: 25) JMP 1109

HLSA780 **Qualitative Methods for Health Services Research**

Credits: 3 Grading Method: Regular, Audit

Qualitative research is a multi-methods approach to the study of social interactions in natural settings. Through triangulation of methods, the researcher attempts to make sense of, or interpret, phenomema in terms of the meanings people bring to them.

0101	Lori Simon-Rusinowitz F 1:00pm - 3:45pm	Seats (Total: 15) SPH 0301

HLSA785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 5)
0401	Rada Dagher Contact instructor or department for details.	Seats (Total: 5)
0501	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 5)
0601	Dylan Roby Contact instructor or department for details.	Seats (Total: 5)

0701	Luisa Franzini Contact instructor or department for details.	Seats (Total: 5)
0801	Stephen Thomas Contact instructor or department for details.	Seats (Total: 5)
0901	Instructor: TBA	Seats (Total: 5)
PLH1	Negin Fouladi Contact instructor or department for details.	Seats (Total: 20)

HLSA786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLSA790 **Advanced Methods in Health Services Research**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB650 and EPIB651; or permission of instructor.

Provides an in-depth examination of health services research literature with emphasis on methodological scrutiny and application of methods beyond linear regression such as categorical regression, survival analysis, selection issues, and endogeniety.

0101	Rada Dagher Tu 4:00pm - 6:45pm	Seats (Total: 20) BPS 1238

HLSA799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

HLSC Integrated Life Sciences Fall 2015

HLSC100 **Students in the University: Integrated Life Sciences**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: EDCP108O, HLSC100, HONR100, or UNIV100H.

In a small classroom setting, Integrated Life Sciences students learn about academic resources on and off campus.

0101	Hannah Jardine Tu 2:00pm - 3:30pm	Seats (Total: 23) LPA 1125
	For students in the Honors College Integrated Life Sciences Program only.	
0102	Hannah Jardine W 2:00pm - 3:30pm	Seats (Total: 23) LPA 1125
	For students in the Honors College Integrated Life Sciences Program only.	
0103	Hannah Jardine Th 2:00pm - 3:30pm	Seats (Total: 23) LPA 1125

HLSC207 **Principles of Biology III Organismal Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI105 and BSCI106; or students who have taken courses with comparable content may contact the department. Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: BSCI207, BSCI279D, or HLSC207.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

0101	Todd Cooke MWF 9:00am - 9:50am	Seats (Total: 80) CCC 1205

HLSC374 **Mathematical Modeling in Biology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH130; or MATH140. And MATH131; or MATH141. Restriction: Must be in a major in UGST-HCOL-Integrated Life Sciences Program. Credit only granted for: HLSC374 or BSCI474.

Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.

0101	Jonathan Simon	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	CCC 1111	
	M 1:00pm - 3:50pm	CCC 1111	Lab

HLTH Health Fall 2015

HLTH106 **Drug Use and Abuse**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Also offered as HLTH106H.Credit granted for HLTH106 or HLTH106H. Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Kenneth Beck	Seats (Total: 100)
	TuTh 12:30pm - 1:45pm	BPS 1250

HLTH106H **Drug Use and Abuse**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Also offered as HLTH106. Credit granted for HLTH106 or HLTH106H.

0101	Kenneth Beck TuTh 12:30pm - 1:45pm	Seats (Total: 100) BPS 1250

HLTH130 **Introduction to Public and Community Health**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Restriction: Must not have completed HLTH105; and non-majors must have 45 or fewer credits. Credit only granted for: HLTH105 or HLTH130. Formerly: HLTH105.

An introduction to the theory and practice of public and community health. The influence of public health professionals on the past, present, and future health status of society through the examination of critical health issues will be described. Programming models, theories and policy development are included.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Donna Howard TuTh 2:00pm - 3:15pm	Seats (Total: 97) SPH 1312
0201	Brett Hagman TuTh 5:30pm - 6:45pm *This section restricted to Public Health Science majors.*	Seats (Total: 130) SPH 1312

HLTH140 **Personal and Community Health**

Credits: 3 | Grading Method: Regular, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

Also offered as HLTH140H. Credit granted for HLTH140 or HLTH140H.

0101	James Butler TuTh 9:30am - 10:45am	Seats (Total: 160) SPH 1312

HLTH140H **Personal and Community Health**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

Also offered as HLTH140. Credit granted for HLTH140 or HLTH140H.

0101	James Butler TuTh 9:30am - 10:45am	Seats (Total: 160) SPH 1312

HLTH200 **Introduction to Research in Community Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of SPHL-Behavioral & Community Health department.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

0101	Amelia Arria MWF 11:00am - 11:50am	Seats (Total: 120) CSS 2324

HLTH230 **Introduction to Health Behavior**

Credits: 3 Grading Method: Regular, Audit CORE: SB General Education: DSHS

Prerequisite: Must have completed or be concurrently enrolled in HLTH130.

Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Tracy Zeeger TuTh 3:30pm - 4:45pm	Seats (Total: 96) JMP 3201
0201	Robert Feldman TuTh 4:00pm - 5:15pm *This section restricted to Public Health Science majors.*	Seats (Total: 130) SPH 1312

HLTH234 **Global Health Messages: Understanding Exposure & Impact.**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVCC, SCIS

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

0101	Juliette Christie	Seats (Total: 40)
	Tu 3:30pm - 6:15pm	EGR 0135

HLTH285 **Controlling Stress and Tension**

Credits: 3 | Grading Method: Regular, Audit | CORE: IE | General Education: DSHS

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

Also offered as HLTH285H. Credit granted for HLTH285 or HLTH285H. Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Erin Tagai	Seats (Total: 80)
	TuTh 8:00am - 9:15am	SPH 1312

HLTH285H **Controlling Stress and Tension**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSHS

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

Also offered as HLTH285. Credit granted for HLTH285 or HLTH285H.

0101	Erin Tagai	Seats (Total: 80)
	TuTh 8:00am - 9:15am	SPH 1312

HLTH289 **Topical Investigations**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH300 **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

Also offered as HLTH300H. Credit granted for HLTH300 or HLTH300H.

0101	Elizabeth Seaman	Seats (Total: 200)
	TuTh 12:30pm - 1:45pm	SPH 1312

HLTH300H **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

Also offered as HLTH300. Credit granted for HLTH300 or HLTH300H.

0101	Elizabeth Seaman	Seats (Total: 200)
	TuTh 12:30pm - 1:45pm	SPH 1312

HLTH301 **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in one of the following programs (Community Health; Public Health Science). Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

Also offered as HLTH301H. Credit granted for HLTH301 or HLTH301H.

0101	Debra Bernat	Seats (Total: 122)
	TuTh 2:00pm - 3:15pm	JMP 3201

HLTH301H **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in one of the following programs (Community Health; Public Health Science). Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

Also offered as HLTH301. Credit granted for HLTH301 or HLTH301H.

0101	Debra Bernat	Seats (Total: 122)
	TuTh 2:00pm - 3:15pm	JMP 3201

HLTH366 **Behavioral and Community Issues in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

0101	Evelyn King-Marshall	Seats (Total: 40)
	MW 4:00pm - 5:15pm	PLS 1130

HLTH371 **Communicating Safety and Health**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

The communication and evaluation of safety and health information. Emphasis on various types of communications and recipient factors which contribute to their success or failure.

Also offered as HLTH371H. Credit granted for HLTH371 or HLTH371H.

0101	Sylvette La Touche-Howard TuTh 2:00pm - 3:15pm	Seats (Total: 80) CCC 1100

HLTH377 **Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Also offered as HLTH377H. Credit granted for HLTH377 or HLTH377H.

0101	Robin Sawyer TuTh 11:00am - 12:15pm	Seats (Total: 160) SPH 1312
SG91	Daisy Le W 10:30am - 1:20pm	Seats (Total: 40) Location: TBA
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.	

HLTH377H **Human Sexuality**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Also offered as HLTH377. Credit granted for HLTH377 or HLTH377H.

0101	Robin Sawyer TuTh 11:00am - 12:15pm	Seats (Total: 160) SPH 1312

HLTH386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of SPHL-Behavioral & Community Health department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

HLTH389 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH391 **Principles of Community Health I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSSP

Prerequisite: HLTH140, HLTH230, HLTH300, and BSCI202. Corequisite: HLTH301. Restriction: Must be in Community Health program.

Broad overview of community health. Health promotion, consumer health, public health, school health, environmental health, preventive medicine, human biology and the health care system are examined. Each area's contribution to community health is discussed.

0101	Sharon Desmond TuTh 9:30am - 10:45am	Seats (Total: 50) SPH 0308
0201	James Butler TuTh 12:30pm - 1:45pm	Seats (Total: 50) CCC 1111

HLTH410 **Honors Seminar**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: HLTH200; and must have completed 2 other courses in HLTH. Restriction: Minimum cumulative GPA of 3.5; and must have completed 45 credits before applying.

Undergraduate majors with a strong academic record are provided the opportunity to engage in challenging educational experiences related to the social and behavioral aspects of public health. Students will learn the skills and knowledge to develop, propose, defend, and complete an honors thesis or honors project.

0101	Kerry Green M 12:00pm - 3:00pm	Seats (Total: 12) Location: TBA

HLTH420 **Methods and Materials in Health Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: FSOC

Prerequisite: HLTH301 and HLTH391. Corequisite: HLTH490.

The purpose of this course is to present the interrelationships of curriculum planning, methodology and the selection and use of teaching aids and materials. Special problems associated with health teaching are discussed. Students become familiar with a variety of resources as well as with planning for and presenting demonstration lessons.

0101	Robin Sawyer TuTh 9:30am - 10:45am	Seats (Total: 18) SPH 0303
0201	Martha Reynolds TuTh 11:00am - 12:15pm	Seats (Total: 18) SPH 0301
0301	Katherine Sharp M 4:00pm - 6:45pm	Seats (Total: 18) JMP 1109
0401	Martha Reynolds TuTh 12:30pm - 1:45pm	Seats (Total: 18) SPH 0301
0501	Martha Reynolds TuTh 9:30am - 10:45am	Seats (Total: 18) PLS 1158

HLTH460 **Minority Health**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: HLTH140 or HLTH230; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

Also offered as HLTH460H. Credit granted for HLTH460 or HLTH460H.

0101	Mary Garza W 4:00pm - 6:45pm	Seats (Total: 44) SPH 1302

HLTH460H **Minority Health**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: HLTH140 or HLTH230; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

Also offered as HLTH460. Credit granted for HLTH460 or HLTH460H.

0101	Mary Garza W 4:00pm - 6:45pm	Seats (Total: 44) SPH 1302

HLTH471 **Women's Health**

Credits: 3 Grading Method: Regular, Audit , D

Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or must be in a major within ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLT471 or WMST471.

The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

Also offered as: HLTH471H. Credited granted for HLTH471, HLTH471H, or WMST471. Recommended for junior and senior women.

SG91	Sabrina Matoff-Stepp Tu 5:00pm - 7:50pm	Seats (Total: 36) Location: TBA

HLTH489 **Field Laboratory Projects and Workshop**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.

Contact department for information to register for this course.

HLTH490 **Principles of Community Health II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HLTH301 and HLTH391. Corequisite: HLTH420.

Students will be involved in the applied aspects of community health education. They will work with specific local community groups, planning, developing, implementing and evaluating a community health project. Health agencies and community health marketing techniques will be investigated.

0101	Sylvette La Touche-Howard MW 11:00am - 12:15pm	Seats (Total: 18) SPH 0307
0201	Tracy Zeeger MW 12:30pm - 1:45pm	Seats (Total: 18) ARC 1121
0301	Sylvette La Touche-Howard TuTh 12:30pm - 1:45pm	Seats (Total: 18) SPH 1242A
0501	Tracy Zeeger MW 11:00am - 12:15pm	Seats (Total: 18) ARC 1123

HLTH491 **Community Health Internship**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Prerequisite: HLTH490. Restriction: Must be in Community Health program.

Integrating theory with practice in a community health setting.

Class will meet on Wednesdays 1:00-3:00pm (September 2, September 23, November 4, December 2) in CCC 1205.

0101	Anne Anderson-Sawyer W 1:00pm - 3:00pm Contact instructor or department for details.	Seats (Total: 100) Location: TBA

HLTH498P **Special Topics in Health; Pregnancy Counseling**

Credits: 3 Grading Method: Regular

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH606 **Foundations of Public Health Education and Policy**

Credits: 3 Grading Method: Regular

Restriction: Must be in MPH: Community Health Education (Master's) program; or must be in Ph.D.: Public and Community Health (Doctoral) program.

Examines foundations and content of two professions, health education and public health, including history, mission, terminology, philosophy, ethical principles and scientific foundations. Emerging and reemerging threats to the public's health will be discussed, as well as societal influences on health and health policy. Also addresses professional competencies and preparation, and the role of professional organizations.

0101	Craig Fryer	Seats (Total: 25)
	Tu 4:00pm - 6:45pm	SPH 0307

HLTH652 **Quantitative Research Methods I in Public health**

Credits: 3 Grading Method: Regular

Restriction: Must be in MPH: Community Health Education (Master's) program; or must be in Ph.D.: Public and Community Health (Doctoral) program. Credit only granted for: HLTH652 or HLTH688R. Formerly: HLTH688R.

Intermediate statistics and procedures in public health-related researc for doctoral students. Focuses on applied statistics rather than theoretical, with emphasis on 1) how to apply statistical models, 2) how to perform the analysis with avialable software, and 3) how to interpret findings.

0101	Min Wang	Seats (Total: 10)
	Tu 4:00pm - 6:45pm	SPH 0301

HLTH665 **Health Behavior I**

Credits: 3 Grading Method: Regular, Audit

The psychological, social psychological, and sociological theories of health behavior. The relation of health knowledge, beliefs, attitudes, intentions, and behavior to preventive, illness, sick-role, and health utilization behaviors.

0101	Donna Howard	Seats (Total: 25)
	W 4:00pm - 6:45pm	SPH 0305

HLTH672 **Public Health Informatics**

Credits: 3

Grading Method: Regular, Audit

Restriction: Instructor permission is required for students not enrolled in a degree seeking program in the School of Public Health. Also offered as: EPIB672. Credit only granted for: HLTH670 or HLTH671, HLTH672, EPIB 672. Formerly: HLTH670. Additional information: Course hashtag - #umdphi12.

A basic overview of Informatics and its application in a public health setting. The major goal is for students to understand the basic tools and building blocks needed to utilize this technology in order to improve their professional productivity

0101	Sandra Saperstein, Robert Gold	Seats (Total: 25)
	Tu 7:00pm - 9:45pm	SPH 0303

HLTH688 **Special Problems in Health Education**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Contact department for information to register for this course.

HLTH710 **Methods and Techniques of Research**

Credits: 3

Grading Method: Regular, Audit

For Health majors only.

0101	Kenneth Beck	Seats (Total: 25)
	M 4:00pm - 6:45pm	SPH 0305

HLTH776 **Community Health Program Evaluation**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: HLTH710 and HLTH774. Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or permission of instructor. Credit only granted for: HLTH775 or HLTH774 and HLTH776. Formerly: HLTH775.

An application of basic research methods, and the evaluation of community health programs. Students will evaluate the effectiveness of a community health intervention.

0101	Amelia Arria	Seats (Total: 25)
	Th 4:00pm - 6:45pm	SPH 0307

HLTH785 **Internship in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH665, HLTH775, and HLTH780; or permission of SPHL-Behavioral & Community Health department.

Internship and seminar providing an opportunity to apply previously aquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Class meets on Mondays: August 31, October 12, December 7.

0101	Elbert Glover, Anne Anderson-Sawyer M 7:00pm - 9:00pm Contact instructor or department for details.	Seats (Total: 15) CSS 2324

HLTH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLTH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HLTH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HLTH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HONR Honors Fall 2015

HONR100 Honors Colloquium

Credits: 1 Grading Method: Regular

Restriction: Permission of University Honors Program.

Attendance at various additional activities and events is required. Reading and discussion on the personal and social value of higher education; development of a coherent general education program; exploration of the educational and cultural resources of the campus and metropolitan area; participation in a community service project; and other activities designed to broaden students' conception of what it means to be an educated person.

HONR100 is restricted to first semester University Honors students only.

0101	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) HBK 1108
0102	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) HBK 0123
0103	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) WDS 1127
0104	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) KEY 0117
0105	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) HAG 1125
0106	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) HAG 1112
0107	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) BPS 1232
0108	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) LPA 1125
0109	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) ANA 0103
0110	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) HBK 1112

0111	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) PLS 1117
0112	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 4) PLS 1176
0113	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) JMZ 1117
0114	Liza Lebrun M 4:00pm - 5:30pm	Seats (Total: 12) KEY 0119
0201	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) WDS 1130
0202	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) TLF 1103
0203	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) ANA 0103
0204	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) ASY 3215
0205	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) HAG 1125
0206	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) HAG 1112
0207	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) BPS 0283
0208	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) PLS 1164
0209	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) JMZ 2125
0210	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) LPA 0124

0211	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) KEY 0123
0212	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) KEY 0120
0213	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) SQH 1105
0214	Liza Lebrun Tu 3:30pm - 4:45pm	Seats (Total: 12) PLS 1119
0301	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) KEY 0107
0302	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) HAG 1125
0303	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) HAG 1112
0304	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) LPA 1124
0305	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) HBK 1112
0306	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) LPA 0124
0307	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) PLS 1113
0308	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) HBK 1108
0309	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) ASY 3217
0310	Liza Lebrun W 4:00pm - 5:30pm	Seats (Total: 12) HBK 0108

HONR208B **Honors Seminar; Contemporary Indian Society**

Credits: 3 | Grading Method: Regular | General Education: DSHS

0101	Sonalde Desai M 3:30pm - 6:00pm	Seats (Total: 20) ANA 0120

HONR208L **Honors Seminar; Justice Matters: Law, Literature, and Film**

Credits: 3 | Grading Method: Regular | General Education: DSHU, SCIS

0101	Sara Schotland TuTh 11:00am - 12:15pm	Seats (Total: 20) PLS 1146

HONR208M **Honors Seminar: Utopia and Dystopia: Reality and Relevance**

Credits: 3 | Grading Method: Regular | CORE: HO | General Education: DSHU

0101	Sara Schotland Tu 2:00pm - 4:30pm	Seats (Total: 20) WDS 1127

HONR208Q **Honors Seminar; Appetite for Change: Politics and the Globalization of Food**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

Also offered as GVPT289A. Credit will be granted for HONR208Q or GVPT 289A.

0101	Virginia Haufler MW 2:00pm - 3:15pm	Seats (Total: 20) TYD 1118

HONR209O **The Science of Sleep and Biological Rhythms**

Credits: 3 | Grading Method: Regular | CORE: LS | General Education: DSNS

0101	David Yager TuTh 12:30pm - 1:45pm	Seats (Total: 20) CSS 2416

HONR217 **Life, The Multiverse and Everything: Developing an Individual Cosmovision**

Credits: 3 | Grading Method: Regular | CORE: HO, D | General Education: DSHU

In this Honors seminar, students pursue personal cosmologies in light o our contemporary core "Western" scientific world-view and a selection of other ancient and indigenous cosmographies for comparison including those of Mesoamerica, the Inca, the Egyptians or the Chinese.

0101	John Carlson Tu 7:00pm - 9:30pm	Seats (Total: 20) LPA 0124
0201	John Carlson W 7:00pm - 9:30pm	Seats (Total: 17) LPA 0124

HONR218B **Honors Seminar; Making a Difference: The Lives and Words of Leaders Who Shape Our Time**

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Kevin Klose TuTh 11:00am - 12:15pm	Seats (Total: 20) KNI 1206

HONR218J **Honors Seminar; Sustainability and Development: From the Individual to the Global**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Dorith Grant-Wisdom TuTh 2:00pm - 3:15pm	Seats (Total: 20) SYM 0215

HONR218L **Honors Seminar: Language and Mind**

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU

0101	Valentine Hacquard TuTh 9:30am - 10:45am	Seats (Total: 20) KEY 0123

HONR218M **Honors Seminar; Elements of Music Composition for Non-Majors**

Credits: 3 Grading Method: Regular General Education: DSHU, DSSP

0101	William Evans Tu 3:30pm - 6:00pm	Seats (Total: 16) PAC 1108

HONR218T **Honors Seminar; Political Theater: On Stage and in Washington**

Credits: 3 | Grading Method: Regular | General Education: DSHU

0101	Nelson Pressley	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ANA 0120

HONR218Y **Honors Seminar; How to Think Like da Vinci, Montaigne, and Shakespeare**

Credits: 3 | Grading Method: Regular | General Education: DSHU

0101	Gerard Passannante	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	TWS 3132

HONR219G **Honors Seminar; Spirituality and Health**

Credits: 3 | Grading Method: Regular | General Education: DSNS, SCIS

0101	Byrn Quimby	Seats (Total: 20)
	MWF 11:00am - 11:50am	LPA 1125

HONR219Y **Merging the Multiple Me's: Developmental Origins of the Integrated Adult Self**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

0101	Allan Wigfield	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ASY 3217

HONR228E **Honors Seminar; Design for Theatre for Non-Majors**

Credits: 3 | Grading Method: Regular | General Education: DSSP

0101	Mikhail Kachman	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PAC 2733

HONR228G **Honors Seminar; Food Ethics: You Gonna Eat That?**

Credits: 3 | Grading Method: Regular | General Education: DSNS, SCIS

0101	Amy Brown	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	MTH 0402

HONR228N **Evaluating Global Development Assistance**

Credits: 3 | Grading Method: Regular | CORE: SB, D | General Education: DSHS

0101	Snaebjorn Gunnsteinsson	Seats (Total: 20)
	MWF 8:00am - 8:50am	SYM 0215

HONR228T **Honors Seminar; Journalism and Peace**

Credits: 3 | Grading Method: Regular

0101	Colman McCarthy	Seats (Total: 20)
	M 12:00pm - 2:30pm	CHE 2116

HONR229B **Honors Seminar; European Images of America**

Credits: 3 | Grading Method: Regular | General Education: DSHU

0101	Thomas Clark	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TWS 3132

HONR229F **Honors Seminar; New Media Frontiers**

Credits: 3 | Grading Method: Regular | General Education: DSHU, SCIS

0101	Leslie Walker	Seats (Total: 18)
	MW 2:00pm - 3:15pm	KNI 1101

HONR229L **Honors Seminar; Climate Change: Science, Economics, and Governance**

Credits: 3 | Grading Method: Regular | General Education: DSNS, SCIS

0101	Ross Salawitch	Seats (Total: 20)
	MW 5:00pm - 6:15pm	CSS 3400

HONR238C **The Future of Energy and Climate Policy**

Credits: 3 | Grading Method: Regular | CORE: IE | General Education: DSSP

0101	Tyson Slocum	Seats (Total: 20)
	W 3:00pm - 5:30pm	CHM 1228

HONR238D **Honors Seminar: The Contemporary American Musical Theatre: From Hair to Hairspray -- and Beyond**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU

0101	Korey Rothman MW 10:00am - 11:15am	Seats (Total: 20) ANA 0120
0201	Korey Rothman MW 1:00pm - 2:15pm	Seats (Total: 20) SQH 1117

HONR238L **Honors Seminar: Engineering in Ancient Empires**

Credits: 3 Grading Method: Regular CORE: SH General Education: DSHS

0101	Denis Sullivan TuTh 3:30pm - 4:45pm	Seats (Total: 20) HBK 0123

HONR238R **Honors Seminar: Terrorism**

Credits: 3 Grading Method: Regular CORE: SH General Education: DSHS

0101	Edwin Smead M 3:30pm - 6:05pm	Seats (Total: 20) TLF 1103

HONR239D **Honors Seminar; Introduction to Printmaking**

Credits: 3 Grading Method: Regular General Education: DSSP

Students must pay a $40.00 studio lab fee.

0101	Matthew McLaughlin TuTh 6:00pm - 8:30pm	Seats (Total: 12) ASY 1317

HONR239X **Honors Seminar; Ecological Design Thinking**

Credits: 3 Grading Method: Regular General Education: DSSP

0101	David Tilley TuTh 11:00am - 12:15pm	Seats (Total: 20) ARC 1111

HONR248H **Honors Seminar: From Willowbrook to Attica: Delinquency in the Context of Disability**

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, DVUP

0101	Carolyn Fink	Seats (Total: 20)
	M 1:00pm - 3:50pm	ANA 0103

HONR249L **The Historical Development of London**

Credits: 3 Grading Method: Regular CORE: SH

Contact department for information to register for this course.

HONR258E **Honors Seminar; Creating the Future through Systemic Thinking and Design**

Credits: 3 Grading Method: Regular General Education: DSSP

0101	Jose Suarez	Seats (Total: 20)
	MW 3:30pm - 4:45pm	VMH 3330H

HONR258F **Honors Seminar; Incarceration Nation: Behind Bars in Early America**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Richard Bell	Seats (Total: 20)
	MW 12:00pm - 1:15pm	TLF 1101

HONR258O **Honors Seminar; The Kinesiological Bases of Skilled Perfomance**

Credits: 3 Grading Method: Regular

0101	Seppo Iso-Ahola	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	SPH 0303

HONR258T **Honors Seminar: Tools of Fiction: Literature and/as Creative Writing**

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU

0101	Dean Hebert	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	ANA 0103

HONR258W **Honors Seminar: Exploring Homophobia: Demystifying Lesbian, Gay, Bisexual, and Transgender Issues**

Credits: 3 Grading Method: Regular , D General Education: DVUP

0101	Robyn Zeiger	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	LPA 0124

HONR259L **Honors Seminar; Thinking Strategically**

Credits: 3 | Grading Method: Regular | General Education: FSAR

0101	Daniel Vincent	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	MOR 1101

HONR268L **Honors Seminar: United States Immigration Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SQH 1111

HONR268N **Honors Seminar; Cracking the Secrets of the Universe Using Computers: Re-discovering the Higgs and Searching for Invisible Matter**

(Perm req)

Credits: 3 | Grading Method: Regular | General Education: DSNS, DSSP, SCIS

This course is part of a two-semester Honors research seminar. Part two of this series will be offered in the Spring 2016 Semester. For permission to enroll in this course, please contact Dr. William Dorland at bdorland@umd.edu.

0101	Shabnam Jabeen, Sarah Eno	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PHY 3301

HONR269P **Honors Seminar; Formulating U.S. Science and Technology Policy**

Credits: 3 | Grading Method: Regular | General Education: DSSP

0101	Henry Lucas	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	VMH 2509

HONR269T **Honors Seminar: Understanding U.S. Foreign Policy toward Afghanistan**

Credits: 3 | Grading Method: Regular | CORE: SB, D | General Education: DSHS, SCIS

This is a Global Classroom course. There will be approximately 4 or 5 weeks where this course will meet on Sundays for teleconferencing meetings with students in Kabul, Afghanistan instead of meeting at its normal weekly time on Thursday nights (exact dates TBA).

0101	Temim Nusraty Th 6:30pm - 9:00pm	Seats (Total: 10) ANA 0120

HONR269V **Honors Seminar; Virus Hunting: Emerging Diseases, Social Controversies and Nano-Technologies**

Credits: 3 Grading Method: Regular General Education: DSNS

0101	James Culver TuTh 9:30am - 10:45am	Seats (Total: 20) BPS 1238

HONR278G **Honors Seminar; Exploring How Foreign Policy Is Developed**

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Temim Nusraty M 6:30pm - 9:00pm	Seats (Total: 20) ANA 0120

HONR278K **Honors Seminar; Evolutionary Processes in Health Medicine**

Credits: 3 Grading Method: Regular General Education: DSNS, SCIS

0101	Charles Delwiche MW 3:00pm - 4:15pm	Seats (Total: 20) MCB 1123

HONR278Q **Honors Seminar; Biodiversity, Global Environmental Change and Their Effects on Human Health**

Credits: 3 Grading Method: Regular General Education: DSNS

0101	Karen Lips TuTh 11:00am - 12:15pm	Seats (Total: 20) BPS 1236

HONR278R **Honors Seminar; Creative People, Creative Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	James Fry TuTh 2:00pm - 3:15pm	Seats (Total: 15) PAC 2168

HONR278V **Honors Seminar; Materiality of Diaspora: Invented Identities and Transformed World Views**

Credits: 3 | Grading Method: Regular | General Education: DSHS, DVUP

0101	Stephen Brighton	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	WDS 1114

HONR279B **Honors Seminar; Social Security in a Changing America**

Credits: 3 | Grading Method: Regular | General Education: DSHS

0101	Scott Szymendera	Seats (Total: 20)
	M 7:00pm - 9:30pm	LPA 0124

HONR279L **Honors Seminar; The Problem with Prejudice: Overcoming Impediments to Global Peace and Justice**

Credits: 3 | Grading Method: Regular | General Education: DSHU, SCIS

0101	Hoda Mahmoudi	Seats (Total: 20)
	Tu 3:00pm - 5:30pm	CHT 1109

HONR279M **Honors Seminar; How Does the Brain Speak? Insights from Neuroimaging and Brain Damage**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

0101	Yasmeen Shah	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PLS 1172

HONR279Q **Honors Seminar; The Boy Who Lived, All Grown Up: Assessing the Harry Potter Books and their Adaptations**

Credits: 3 | Grading Method: Regular | General Education: DSHU

0101	Michelle Butler	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	EGR 0110

HONR279R **Honors Seminar; Faith and Values in Public Life**

Credits: 3 | Grading Method: Regular | General Education: DSHS

0101	Darron Monteiro	Seats (Total: 20)
	Tu 6:00pm - 8:30pm	ANA 0120

HONR279W **Honors Seminar: The Solar System**

Credits: 3 | Grading Method: Regular | CORE: PS | General Education: DSNS

0101	Richard Walker	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	PLS 1176

HONR288L **Medical Devices: Applied Ethics and Public Policy**

Credits: 3 | Grading Method: Regular | CORE: SB | General Education: DSSP

0101	Glenn Rahmoeller	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PLS 1113

HONR288O **Honors Seminar: Why Do Things Fail?**

Credits: 3 | Grading Method: Regular | CORE: PS | General Education: DSNS, SCIS

0101	William Fourney	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMP 1109

HONR289A **The Ecology and Evolutionary Biology of Infectious Disease**

Credits: 3 | Grading Method: Regular | CORE: LS | General Education: DSNS

0101	Benjamin Rosenthal	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ASY 3221

HONR289N **Honors Seminar; Physical Activity in Health and Human Performance: From Fat to Fit to Olympic Gold**

Credits: 3 | Grading Method: Regular | General Education: DSNS, SCIS

0101	Colleen Farmer	Seats (Total: 20)
	W 2:00pm - 4:30pm	SPH 1303

HONR348J **Advanced Honors Seminar; Contemporary Social Issues**

Credits: 3 | Grading Method: Regular | General Education: DVCC

A series of seminars, often interdisciplinary and sometimes team taught The subjects will vary from semester to semester.

0101	Edwin Smead	Seats (Total: 20)
	W 4:00pm - 6:30pm	JMZ 3203

HONR349I **Honors Colloquium; Leading and Investing in Social Change: Redefining and Experimenting with Philanthropy**

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

A series of seminars, often interdisciplinary and sometimes team taught. Subjects may vary.

0101	Robert Grimm	Seats (Total: 40)
	Th 2:00pm - 4:30pm	TLF 1126

HONR349V **Honors Colloquium; Dubai: Global Immersion Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary and sometimes team taught. Subjects may vary.

Contact department for information to register for this course.

HONR358A **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358B **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358C **Honors Practicum**

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR359A **Honors Workshop**

Credits: 3-6 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Dean Hebert Contact instructor or department for details.	Seats (Total: 1)

HONR359B **Honors Workshop; Alternatives to Violence**

Credits: 3 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Colman McCarthy M 2:30pm - 5:00pm	Seats (Total: 25) CHE 2116

HONR359L **Honors Workshop; Leading Honors Colloquium**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Liza Lebrun Contact instructor or department for details.	Seats (Total: 33)

HONR359P **Honors Workshop; Peer Mentor**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Liza Lebrun Tu 6:00pm - 6:50pm	Seats (Total: 20) Location: TBA
0201	Liza Lebrun Th 11:00am - 11:50am	Seats (Total: 20) Location: TBA
0301	Liza Lebrun Th 4:00pm - 4:50pm	Seats (Total: 20) Location: TBA

HONR368A **Advanced Honors Seminar; MGA Legislative Seminar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSPW

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Also offered as ENGL381. Credit will only be granted for one of the following: ENGL381 or HONR368A. Admission to this course is by application only.

0101	Thomas Lowderbaugh	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	TWS 0232

HONR378N **Advanced Honors Seminar; Research in Science and Public Policy for the U.S. National Security Agency**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

Restriction: permission of department. Also offered as HACS408N. Credit granted for HONR378N or HACS408N. Enrollment is by application only. Please send a letter of interest describing your technical background, and previous research or projects you have worked on, and say why you are interested in this opportunity. Contact: Professor Jordan Goodman at goodman@umd.edu.

0101	Jeffrey Starr, Jordan Goodman	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PSC 2148

HONR379 **Honors Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Available only to University honors students.

Contact department for information to register for this course.

HONR379A **Honors Independent Study**

Credits: 2 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Contact department for information to register for this course.

IMMR Immigration Studies Fall 2015

IMMR200 **Introduction to Immigration and Migration Studies**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Introduces concepts and theoretical interpretations about the causes of international migration; provides an historical overview of the main flows of immigration to the U.S.; analyzes economic, political, social, and cultural aspects that impact the immigrants' settlement process.

0101	Andres Villarreal	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	HBK 0123	

IMMR219A **Special Topics in Immigration and Migration Studies; Immigration and Ethnicity in America**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies history at an introductory level withemphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as AAST222 and AMST298Z. Credit only granted for AAST222, AMST298Z, HIST219L, HIST222, or IMMR219A. The history of immigration and the development of diverse populations in the United States are examined. Topics include related political controversies, the social experiences of immigrants, ethnicity, generations, migration, inter-group relations, race and diversity in

0101	Jeannette Soon-Ludes	Seats (Total: 40)	
	M 5:00pm - 7:30pm	SQH 1121	

IMMR219C **Special Topics in Immigration and Migration Studies; Anthropology and Immigration**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies history at an introductory level withemphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as ANTH264. Credit granted for ANTH264 or IMMR219C. An examination of the phenomenon of international migration, or immigration. Students develop awareness of how immigration has been framed in the general public and examined by social science disciplines, most prominently anthropology. Examination of case studies of different immigrant groups in distinct geographic contexts will illuminate the varied incorporation experiences of immigrants into U.S. society.

0101	Christina Getrich	Seats (Total: 20)	
	MW 10:00am - 10:50am	TYD 2106	
	F 9:00am - 9:50am	EDU 2119	Discussion

0102	Christina Getrich MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) TYD 2106 EDU 2119	 Discussion
0103	Christina Getrich MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) TYD 2106 KNI 1103	 Discussion

IMMR419D **Special Topics in Immigration and Migration Studies; Citizens, Immigrants, and Refugees**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies history with emphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as USLT498I and AMST498N. Credit granted for IMMR419D, USL T498I or AMST498N.

0101	Perla Guerrero TuTh 9:30am - 10:45am	Seats (Total: 35) SQH 1103

IMMR419F **Special Topics in Immigration and Migration Studies; Border Crossing: People, Power, and Politics in Transnational Perspective**

Credits: 3 Grading Method: Regular

Thematic exploration of a topic in immigration or migration studies history with emphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as AMST498A. Credit will be granted for IMMR419F or AMST498A.

0101	Jan Padios TuTh 12:30pm - 1:45pm	Seats (Total: 35) SQH 1119

INAG Institute of Applied Agriculture Fall 2015

INAG100 **Introduction to Plant Science**

Credits: 4 Grading Method: Regular, Audit

A general introduction to plant science designed to provide the students with a working knowledge of the fundamental structures and processes of plants. Content includes plant anatomy, physiology, genetics, and environmental relationships.

0101	Kenneth Ingram	Seats (Total: 15)	
	MWF 8:00am - 8:50am W 9:00am - 10:50am	JUL 1123 JUL 1111	 Lab
0102	Kenneth Ingram	Seats (Total: 15)	
	MWF 8:00am - 8:50am F 9:00am - 10:50am	JUL 1123 JUL 1111	 Lab

INAG102 **Business Operations**

Credits: 3 Grading Method: Regular, Audit

0101	Meredith Epstein	Seats (Total: 30)	
	MWF 12:00pm - 12:50pm	JUL 1123	

INAG103 **Agricultural Marketing**

Credits: 3 Grading Method: Regular, Audit

0101	Meredith Epstein	Seats (Total: 20)	
	MWF 11:00am - 11:50am	JUL 1123	

INAG106 **Pesticide Use and Safety**

Credits: 2 Grading Method: Regular, Audit

0101	Ronald Myers	Seats (Total: 30)	
	Class time/details on ELMs	ONLINE	

INAG107 **Turfgrass Management**

Credits: 3 Grading Method: Regular, Audit

0101	Mark Carroll, Justin Mathias	Seats (Total: 16)	
	Tu 5:00pm - 7:00pm F 2:00pm - 2:50pm	PLS 1119 JUL 1111	 Lab

INAG110 **Oral Communication**

Credits: 3 | Grading Method: Regular, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

0101	Gerald Powell MWF 8:00am - 8:50am	Seats (Total: 19) ITV 1111
0201	Eric Dunning MWF 8:00am - 8:50am	Seats (Total: 19) JMP 2202
0301	Gerald Powell MWF 9:00am - 9:50am	Seats (Total: 19) ITV 1111
0401	Eric Dunning MWF 9:00am - 9:50am	Seats (Total: 19) CHE 2136
0501	Amy Fisher MWF 9:00am - 9:50am	Seats (Total: 19) JMP 2202
0701	Amy Fisher MWF 10:00am - 10:50am	Seats (Total: 19) JMP 2202
0801	Robert Ballenger MWF 10:00am - 10:50am	Seats (Total: 19) CHM 1228
0901	Anthony Pagnotti MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1111
1001	Eric Dunning MWF 11:00am - 11:50am	Seats (Total: 19) CHE 2145
1101	Robert Ballenger MWF 11:00am - 11:50am	Seats (Total: 19) ITV 1111
1201	Michelle Molinaro MWF 12:00pm - 12:50pm	Seats (Total: 19) CHE 2145

1301	Anthony Pagnotti MWF 12:00pm - 12:50pm	Seats (Total: 19) HBK 0109
1401	Amy Fisher MWF 12:00pm - 12:50pm	Seats (Total: 19) BPS 1238
1501	Michelle Molinaro MWF 1:00pm - 1:50pm	Seats (Total: 19) ITV 1100
1601	Edward Priola MWF 1:00pm - 1:50pm	Seats (Total: 19) HBK 0109
1701	Edward Priola MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1172
1801	Michelle Molinaro MWF 2:00pm - 2:50pm	Seats (Total: 19) MTH 1308
1901	Robert Ballenger MWF 2:00pm - 2:50pm	Seats (Total: 19) JMZ 2117
2001	JoEllen Barnhart MW 3:00pm - 4:15pm	Seats (Total: 19) KEY 0125
2101	Edward Priola MW 4:00pm - 5:15pm	Seats (Total: 19) JMZ 2125
2201	JoEllen Barnhart MW 4:30pm - 5:45pm	Seats (Total: 19) CHM 1224
2301	JoEllen Barnhart W 6:00pm - 8:45pm	Seats (Total: 19) CHE 2145
2401	Gerald Powell TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1146
2501	Eric Dunning TuTh 8:00am - 9:15am	Seats (Total: 19) EGR 3106
2601	Eric Dunning TuTh 9:30am - 10:45am	Seats (Total: 19) CHE 2116

2701	Gerald Powell TuTh 9:30am - 10:45am	Seats (Total: 19) HBK 0109
2801	Robert Ballenger TuTh 9:30am - 10:45am	Seats (Total: 19) EGR 3106
2901	Amy Fisher TuTh 8:00am - 9:15am	Seats (Total: 19) KEY 0119
3001	Anthony Pagnotti TuTh 11:00am - 12:15pm	Seats (Total: 19) EGR 1110
3101	Michelle Molinaro TuTh 11:00am - 12:15pm	Seats (Total: 19) CHE 2116
3201	Amy Fisher TuTh 12:30pm - 1:45pm	Seats (Total: 19) EGR 3114
3301	Robert Ballenger TuTh 12:30pm - 1:45pm	Seats (Total: 19) SYM 0209
3401	Anthony Pagnotti TuTh 12:30pm - 1:45pm	Seats (Total: 19) KNI 1105
3501	JoEllen Barnhart TuTh 2:00pm - 3:15pm	Seats (Total: 19) SPH 0305
3601	Edward Priola MW 11:00am - 12:15pm	Seats (Total: 19) TWS 0214
3701	Edward Priola TuTh 3:30pm - 4:45pm	Seats (Total: 19) SYM 0209
3801	JoEllen Barnhart TuTh 3:30pm - 4:45pm	Seats (Total: 19) EGR 2116
3901	Michelle Molinaro TuTh 5:00pm - 6:15pm	Seats (Total: 19) KEY 0119
4001	Gerald Powell Tu 6:00pm - 8:45pm	Seats (Total: 19) CHM 1228

INAG110S **Oral Communication**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

Restricted to College Park Scholars.

0601	Anthony Pagnotti MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1111

INAG111 **Written Communication**

Credits: 3 | Grading Method: Regular, Audit

0101	Glori Hyman TuTh 12:30pm - 1:45pm	Seats (Total: 25) JUL 1123

INAG123 **Introduction to Sustainable Agriculture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

An introductory courses that provides an overview of the principles and practices of sustainable agriculture. Students explore the economic, social, and environmental impacts of agriculture, and relate the principles of sustainability to various agricultural production practices and systems.

0101	Meredith Epstein W 4:00pm - 6:50pm	Seats (Total: 25) JUL 1111

INAG199 **Special Problems**

Credits: 1-3 | Grading Method: Regular

0101	Justin Mathias Contact instructor or department for details.	Seats (Total: 10)
0201	Meredith Epstein Contact instructor or department for details.	Seats (Total: 10)

0301	Kenneth Ingram Contact instructor or department for details.	Seats (Total: 10)
0401	Roy Walls Contact instructor or department for details.	Seats (Total: 10)
0501	Meredith Epstein Contact instructor or department for details.	Seats (Total: 10)
0601	Glori Hyman Contact instructor or department for details.	Seats (Total: 10)

INAG199C **Special Problems; Special Problems in AgriScience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Student must be a completer of the high school Curriculum for Agricultural Science Education (CASE) Program. The student will develop and prepare a detailed presentation of their CASE Capstone experience and present it to faculty.

0101	Glori Hyman Contact instructor or department for details.	Seats (Total: 10)

INAG201 **Personnel Management**

Credits: 3 Grading Method: Regular, Audit

0101	Kenneth Ingram TuTh 8:00am - 9:15am	Seats (Total: 30) JUL 1123

INAG203 **Introduction to Finance**

Credits: 3 Grading Method: Regular, Audit

0101	Larisa Cioaca MWF 2:00pm - 2:50pm	Seats (Total: 20) JUL 1105

INAG222 **Landscape Design and Implementation**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

0101	Instructor: TBA	Seats (Total: 25)
	TuTh 4:00pm - 6:50pm	PLS 2137

INAG226 **Diseases of Ornamentals and Turf**

Credits: 3 Grading Method: Regular, Audit

Recommended: Completion of one of the following is recommended: PLSC 253, PLSC 254, INAG 107, PLSC 305. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture.

The course will cover various topics such as plant pathology, disease control practices, and an in depth coverage of the major diseases of ornamentals and turfgrasses in the Mid-Atlantic region. Emphasis will be placed on identification of disease signs and symptoms. Over 50 diseases will be covered during the semester.

0101	Justin Mathias	Seats (Total: 25)	
	Tu 11:00am - 12:50pm	JUL 1111	
	Th 11:00am - 12:50pm	JUL 1111	Lab

INAG231 **Insects of Ornamentals/Turfgrass**

Credits: 3 Grading Method: Regular, Audit

0101	Justin Mathias	Seats (Total: 18)	
	WF 10:00am - 10:50am	JUL 1123	
	M 9:00am - 10:50am	JUL 1111	Lab

INAG237 **Surveying and Applications in Agriculture**

Credits: 3 Grading Method: Regular, Audit

Prerequisite or corequisite: INAG101.

0101	Roy Walls	Seats (Total: 10)	
	W 11:00am - 12:50pm	ANS 0504	
	F 11:00am - 12:50pm	ANS 0504	Lab

INAG240 **Professional Development**

Credits: 1 Grading Method: Regular

Prerequisite or corequisite: INAG299A.

0101	Glori Hyman	Seats (Total: 25)
	M 3:00pm - 4:50pm	JUL 1123

INAG242 **Golf Course Design and Construction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

0101	Kenneth Ingram	Seats (Total: 22)	
	MW 2:00pm - 2:50pm	JUL 1123	
	W 3:00pm - 4:50pm	JUL 1123	Lab

INAG250 **Fundamentals of Agricultural Mechanics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of AGNR-Institute of Applied Agriculture department. Also offered as: PLSC204, PLSC204. Credit only granted for: ENBE200 or PLSC204 or INAG250. Formerly: ENBE200. Additional information: Priority given to IAA majors and AGNR students whose major requires this course. Permission will be granted to other students on seats available basis.

A comprehensive course that teaches the fundamentals of agricultural related mechanics. Lecture and lab exercises will cover the broad range of topics associated with agricultural mechanics including electricity, plumbing, welding processes, and wood and metal working applications. Emphasis will be given to the design and installation of electrical circuits. It will also include project planning and implementation including development of safety protocols for each area of study and introduction of GPS equipment and software for survey data collection.

0101	Roy Walls	Seats (Total: 8)
	TuTh 9:30am - 12:20pm	ANS 0504
0201	Roy Walls	Seats (Total: 8)
	TuTh 2:00pm - 4:50pm	ANS 0504

INAG299A **Supervised Work Experience; Internship I**

Credits: 1 Grading Method: Regular

Contact department for information to register for this course.

INAG299B **Supervised Work Experience; Internship II**

Credits: 1 Grading Method: Regular

Contact department for information to register for this course.

INFM Information Management Fall 2015

INFM600 **Information Environments**

Credits: 3 Grading Method: Regular, Audit

Role and function of information in organizations. Organizational environment and its influence on internal and external communication, organizational structure and management, organizational culture, information flow, organizational identity. Shared mental models and group decision ma king. Differences among types of organizations. Information policy.

0101	Andrea Wiggins W 6:00pm - 8:45pm	Seats (Total: 30) HBK 0109
0201	Katy Lawley M 6:00pm - 8:45pm	Seats (Total: 30) HBK 2119
SG01	Andrea Wiggins Tu 6:00pm - 8:45pm	Seats (Total: 30) Location: TBA

INFM603 **Information Technology and Organizational Context**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed LBSC671 or LBSC690; and permission of INFO-College of Information Studies.

Application of communication and information technologies to support work processes, including technology-enhanced communication networks, computer-supported collaborative work, decision-support systems, interactive systems, and systems analysis. Acquisition of information systems and their integration into the organization.

0101	Nelson Padua-Perez Th 6:00pm - 8:45pm	Seats (Total: 30) HBK 0105
SG01	Vedat Diker W 6:00pm - 8:45pm	Seats (Total: 30) Location: TBA

INFM605 **Users and Use Context**

Credits: 3 Grading Method: Regular, Audit

Use of information by individuals. Nature of information. Information behavior and mental models. Characteristics of problems, task analysis, problem solving, and decision making. Methods for determining information behavior and user needs. Information access. Information technology as a tool in information use.

0101	Howard Killam Tu 6:00pm - 8:45pm	Seats (Total: 30) HBK 1112
SG01	Vera Rhoads Class time/details on ELMs	Seats (Total: 20) ONLINE

INFM612 **Management of Information Programs and Services**

Credits: 3 Grading Method: Regular, Audit

Administration of information programs, services, and projects, including the role of leadership in management; developing mission, vision, and goals; providing effective management for results; managing professionals; financial management; and professional conduct and ethical issues.

0101	Taverekere Srikantaiah M 6:00pm - 8:45pm	Seats (Total: 30) PLS 1111
0201	Ping Wang Tu 2:00pm - 4:45pm	Seats (Total: 30) CHM 0127
SG01	Taverekere Srikantaiah Class time/details on ELMs	Seats (Total: 20) ONLINE

INFM620 **Introduction to Strategic Information Management**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM612; or LBSC631; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Defining and identifying strategic information in an organization. Characteristics of strategic information management, including the principles, practices, issues, and programs involved with the strategic management and protection of information in organizations.

SG10	Vikas Sahasrabudhe Class time/details on ELMs	Seats (Total: 20) ONLINE

INFM714 **Principles of Competitive Intelligence**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM600; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM714 or INFM718W. Formerly: INFM718W.

Intelligence process and how to build business advantage by the collection and analysis of the capabilities, vulnerabilities, market positioning and strategic planning of competitors using open source information.

SG01	Taverekere Srikantaiah	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

INFM719 **Independent Study**

Credits: 1-3 Grading Method: Regular

Intensive individual study under faculty supervision.

Contact department for information to register for this course.

INFM737 **Information Management Capstone Experience**

Credits: 3 Grading Method: Sat-Fail

Prerequisite: INFM736; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Additional information: Taken near the end of student's program.

In-depth problem analysis and resolution. Capstone project.

0101	Kathy Weaver	Seats (Total: 30)
	M 2:00pm - 4:45pm	HBK 0109

INFM743 **Development of Internet Applications**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603, LBSC690, LBSC671, or INST733; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Mark up languages and methods for manipulating marked-up content. Techniques for adding interactivity to web pages. Installing and running servers. Server-side applications. Application programming interfaces for third-party content and tools. Extension development.

0101	Jennifer Golbeck	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0109

INFM747 **Web-Enabled Databases**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603, LBSC690, or LBSC671; and INST733. Or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM747 or INFM718N. Formerly: INFM718N.

Basic methods and tools for developing dynamic, database-driven web sites. Acquiring, installing, and running web servers, database servers, and connectability applications. Developing web interfaces and application-layer components.

SG01	Elizabeth Thiry	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

INFM757 **Organizational and Business Process Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed at least 9 credits in the College of Information Studies. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718V, INFM757. Formerly: INFM718V.

General principles of modeling, including methods for modeling organizational and business process for information applications and strategy development. Approaches to evaluating models based on their accuracy and usefulness.

SG01	Vedat Diker	Seats (Total: 30)
	Th 6:00pm - 8:45pm	Location: TBA

INFM799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

INST Information Studies Fall 2015

INST603 **Systems Analysis and Design**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST603, LBSC603, or INFM613. Formerly: INFM613

Formal process for planning and designing an information technology system, including identifying users and other stakeholders, analyzing work processes, preparing system specifications, conducting feasibility and usability studies, and preparing for implementation. Approaches to analyzing system components and functions. Measurement and evaluation of system performance.

SG01	Andrew Casertano M 6:00pm - 8:45pm	Seats (Total: 30) Location: TBA

INST604 **Introduction to Archives and Digital Curation**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC604 or LBSC605.

Overview of the principles, practices, and applications in the archival and digital curation fields.

0101	Ricardo Punzalan Tu 6:00pm - 8:45pm	Seats (Total: 30) HBK 0109
0201	Ricardo Punzalan W 2:00pm - 4:45pm	Seats (Total: 30) HBK 0109

INST610 **Information Ethics**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: INFM718Q, INST610, or LBSC708I. Formerly: INFM718Q and LBSC708I.

Investigation of the diverse range of ehtical challanges facing society in the information age. Ethical theories, including non-Western and feminist theories. Application of theories to information ethics issues.

SG01	Katie Shilton Class time/details on ELMs	Seats (Total: 20) ONLINE

INST613 **Information and Human Rights**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST728B or INST613. Formerly: INST728B.

An examination of information as a human right, including topics: social, cultural, economic, legal, and political forces shaping information rights; the impact of information rights on information professions, standards, and cultural institutions; and information rights and disadvantaged populations.

0101	Paul Jaeger Tu 6:00pm - 8:45pm	Seats (Total: 30) PLS 1111

INST627 **Data Analytics for Information Professionals**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Skills and knowledge needed to craft datasets, perform quantitative and qualitative analyses, and develop information resources that bridge the gap between raw data and decision makers' needs.

0101	Yla Tausczik W 2:00pm - 4:45pm	Seats (Total: 30) HBK 0105
0201	Jessica Vitak Tu 6:00pm - 8:45pm	Seats (Total: 30) HBK 2119

INST630 **Introduction to Programming for the Information Professional**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

An introduction to computer programming intended for students with no previous programming experience. Topics include fundamentals of programming and current trends in user interface implementation that are relevant to information professionals.

0101	Niklas Elmqvist M 2:00pm - 4:45pm	Seats (Total: 30) HBK 0105

INST631 **Fundamentals of Human-Computer Interaction**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST630; or programming experience; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST631 or LBSC795. Formerly: LBSC795.

Principles of human-human and machine-machine communication as a basis for models of human-computer communication. Issues related in input/ output devices, conceptual models, levels of control, metaphor and personification, adaptability, and intensionality/extensionality.

0101	Jennifer Golbeck	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 2119

INST641 **Policy Issues in Digital Curation**

Credits: 3 Grading Method: Regular

Prerequisite: INST640; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Discussion of strategies to address intellectual property, privacy, security and other policy concerns raised by the curation of digital records and data.

CT01	Katie Shilton	Seats (Total: 15)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in CMDA certification program.	

INST643 **Curation in Cultural Institutions**

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies.

An overview of the principles, practices, and current debates in the management, care and representation of digital artifacts in libraries, archives, and museums.

0101	Richard Marciano	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0109

INST680 **Health Informatics**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in INFM600 or LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST680 or INST728F. Formerly: INST728F.

An introduction to the ways in which medical data, information, and knowledge are created, stored and used. Students will gain an understanding of the current trends in the delivery of medical care and the ways in which these trends influence health information resources and systems.

0101	Nancy Roderer Tu 6:00pm - 8:45pm	Seats (Total: 20) HBK 0105

INST701 **Introduction to Research Methods**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC701, INFM718M or INST701. Formerly: LBSC701, INFM718M.

Techniques and strategies of research as applied to the definition, investigation, and evaluation of information problems. Qualitative, quantitative, and mixed methods of research design methods are considered from the aspects of implementation, analysis, and interpretation.

0101	Susan Winter W 6:00pm - 8:45pm	Seats (Total: 30) HBK 0115

INST706 **Project Management**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM603 and INFM612; or (LBSC631 and LBSC671); or (LBSC635 and LBSC670); or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST706 or INFM706. Formerly: INFM706.

Comprehensive overview of project management, focusing on the needs of information resource (IR) projects. Concepts and techniques for planning and execution of projects including developing work breakdown structure, estimating costs, managing risks, scheduling, staff and resource allocation, team building, communication, monitoring, control, and other aspects of successful project completion.

SG01	Brian Kolowitz Class time/details on ELMs	Seats (Total: 20) ONLINE

INST714 **Information for Decision-Making**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC631 or INFM612; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718A, INST714 or LBSC705. Formerly: INFM718A and LBSC705.

The use of information in organizational and individual decision-making. An examination of managers' behavior in using information; differences between the private and public sectors; and the roles of information professionals and information systems in decision-making.

0101	Hannah Bergman Tu 2:00pm - 4:45pm	Seats (Total: 30) HBK 0105

INST728V **Special Topics in Information Studies; Data Visualization**

Credits: 3 Grading Method: Regular, Audit

Selected topics in information studies.

0101	Niklas Elmqvist Tu 2:00pm - 4:45pm	Seats (Total: 30) HBK 2119

INST733 **Database Design**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC690, LBSC671, or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST733 or LBSC793. Formerly: LBSC793.

Principles of user-oriented database design. Requirements analysis. Data modelling. Data integrity and security and multi-user databases. Implementing an information system using a database management system (DBMS).

SG01	Katy Lawley W 6:00pm - 8:45pm	Seats (Total: 30) Location: TBA

INST734 **Information Retrieval Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC671 or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST734 or LBSC796. Formerly: LBSC796.

Principles of organizing and providing access to information using automated information storage and retrieval systems. Retrieval systems models, index language selection, data structure, user interfaces, and evaluation for text and multimedia applications.

SG01	Douglas Oard	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

INST735 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department. Restriction: Permission of INFO-College of Information Studies. Also offered as: CMSC723, LING723. Credit only granted for: CMSC723, LING723, or INST735.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantics interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Marine Carpuat	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	CSI 2120

INST737 **Digging Into Data**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INST627; and (LBSC690, LBSC671, or INFM603). Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

An exploration of some of the best and most general approaches to get the most information out of data through clustering, classification, and regression techniques.

0101	A Seyed	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0103

INST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

0501	Allison Druin	Seats (Total: 5)
	Contact instructor or department for details.	
0801	Douglas Oard	Seats (Total: 3)
	Contact instructor or department for details.	

1501	Beth St Jean Contact instructor or department for details.	Seats (Total: 5)
2201	Leah Findlater Contact instructor or department for details.	Seats (Total: 5)
2301	Marshini Chetty Contact instructor or department for details.	Seats (Total: 3)
4101	Jon Froehlich Contact instructor or department for details.	Seats (Total: 5)
4201	Ben Shneiderman Contact instructor or department for details.	Seats (Total: 5)
4301	Ben Bederson Contact instructor or department for details.	Seats (Total: 5)

INST800 **The Engaged Intellectual: An Introduction to Research and Academic Work**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies; and restricted to students in Ph.D. in Information Studies (INFS) program.

An introduction to the academic life with a particular focus on what it means to undertake research, teaching, and service.

Restricted to Doctoral Students.

0101	Kari Kraus M 6:00pm - 8:45pm	Seats (Total: 20) HBK 4113

INST809 **Individualized Teaching Experience**

Credits: 3-5 Grading Method: Regular, Audit

Introduction to the techniques and challenges associated with design, delivery, and evaluation of couses offered at the University level. The doctoral student will work one-on-one with a faculty member in the development and co-teaching of a graduate level course.

1101	Paul Jaeger Contact instructor or department for details.	Seats (Total: 5)

1501	Beth St Jean Contact instructor or department for details.	Seats (Total: 5)
2701	Instructor: TBA	Seats (Total: 5)

INST810 **Individual Research Experience**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: INST810 or LBSC810. Formerly: LBSC810.

Pre-candidacy individual research experience directed by a faculty member.

0201	Jimmy Lin Contact instructor or department for details.	Seats (Total: 5)
0501	Allison Druin Contact instructor or department for details.	Seats (Total: 5)
0801	Douglas Oard Contact instructor or department for details.	Seats (Total: 5)
1101	Paul Jaeger Contact instructor or department for details.	Seats (Total: 5)
1201	June Ahn Contact instructor or department for details.	Seats (Total: 5)
1501	Beth St Jean Contact instructor or department for details.	Seats (Total: 5)
1601	Vanessa Frias-Martinez Contact instructor or department for details.	Seats (Total: 5)
2101	Katie Shilton Contact instructor or department for details.	Seats (Total: 5)
2401	Jessica Vitak Contact instructor or department for details.	Seats (Total: 5)
2701	Mega Subramaniam Contact instructor or department for details.	Seats (Total: 5)

4501	Tamara Clegg	Seats (Total: 5)
	Contact instructor or department for details.	

INST888 **Doctoral Seminar**

Credits: 3 Grading Method: Regular, Audit

Advanced seminar on selected topics in information studies.

0101	Leah Findlater	Seats (Total: 20)
	W 2:00pm - 4:45pm	HBK 4113

INST898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

INST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ISRL Israel Studies Fall 2015

ISRL249C **Selected Topics in Israel Studies; Contemporary Israel: History and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249D **Selected Topics in Israel Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249E **Selected Topics in Israel Studies; Writing Israel**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL289I **The Israeli/Palestinian Conflict: Fundamental Questions**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, SCIS

Why are Palestinians and Israelis unable to resolve their conflict? Will they ever? Using insights and methodologies from a variety of disciplines and contrasting interpretations of history, this course will examine why the Palestinian-Israeli conflict continues, why it has become so central in world politics and how it connects with other global issues.

0101	Paul Scham MW 11:00am - 11:50am W 4:00pm - 4:50pm	Seats (Total: 20) SQH 1120 SQH 1105	Discussion
0102	Paul Scham MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) SQH 1120 SQH 1123	Discussion
0103	Paul Scham MW 11:00am - 11:50am Th 3:30pm - 4:20pm	Seats (Total: 20) SQH 1120 SQH 1101	Discussion
0104	Paul Scham MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) SQH 1120 SQH 1107	Discussion

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ISRL329A **Special Topics in Israel Studies; Israel and the Arab Spring**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

An exploration of the Arab Spring and its impact on Israel, discussing the reactions of diverse segments of Israeli society to these events. We will survey regional developments related to the Arab Spring, focus on emerging theoretical approaches in an effort to contextualizing them, and address their broader impact on Israeli approaches to the Middle East. The course will review prevailing attitudes of both Arab governments and societies toward Israel, along with Israeli perceptions of Arab countries.

0101	Daniel Zisenwine	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1101

ISRL329J **Special Topics in Israel Studies; Representing the Holocaust**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as CMLT398J, ENGL332, and JWST346. Credit only granted for CMLT398J, ENGL379J, JWST419J, ENGL332, JWST346, or ISRL329J. Drawing upon a wide range of texts and genres, this course presents a variety of different perspectives on how the Holocaust has been represented. With an emphasis on modern Israeli literature, we will consider first, second, and third generation responses to the Holocaust within a variety of different languages and nationalist contexts. Our investigation will emphasize the international and comparative nature of Holocaust literary studies and facilitate an investigation into the propriety of literary representation.

0101	Sheila Jelen	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	TWS 0236

ISRL349A **Investigating Topics in Israel Studies; The Psychology of Conflict Resolution**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349B **Investigating Topics in Israel Studies; Arab-Israeli Relations**

Credits: 3-6

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349J **Investigating Topics in Israel Studies; Politics of Nation Building**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as SOCY398Q. Credit granted for ISRL349J or SOCY398Q. Since Israel was established in 1948, the education system has played a major role in developing the Israeli identity. We will examine dominant discourses and debates pertaining to Israeli cultural identity, such as the centrality of the Holocaust, security issues, minorities, religious education, role of literature in national narrative, the role of politics in citizenship education and contemporary debates over History education.

0101	Pnina Peri	Seats (Total: 25)
	MW 3:30pm - 4:45pm	SQH 1121

ISRL349K **Investigating Topics in Israel Studies; Theories of Immigration: Israel as a Case Study**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, DVUP

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as SOCY398I. Credit will be granted for one of the following ISRL349K or SOCY398I. Over 90% of Israel's Jewish population is made of first, second or third generation immigrants, who came from over 70 countries, making Israel an ultimate immigrant society. This course will focus on the history of Israel as a case study for the understanding of the historical phenomena of modern immigration.

0101	Pnina Peri	Seats (Total: 35)
	MW 2:00pm - 3:15pm	SQH 1121

ISRL349Z **Investigating Topics in Israel Studies; Beyond Black and White: Jews and Representations of Race**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DVUP

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as JWST319M. Credit granted for ISRL349Z or JWST319M. An examination of Western constructions and representations of 'race' from medieval times to the modern rise of Zionism and the founding of Israel, with a focus on how Jews utilized the racial discourses of each period to negotiate their position within Western history.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

ISRL369C **Special Topics in Study Abroad; Israeli Society in Israeli Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ISRL448A **Seminar in Israel Studies; Israeli Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Intensive study of an Israel Studies topic. Expected work product is a substantial research or analysis paper or appropriate equivalent.

Prerequisite: 3 credit hours of coursework in Israel Studies. Also offered as GVPT399G. Credit will be granted for GVPT399G or ISRL448A. An exploration of the nature of the Israeli political system: including constitutional structure, the multi-party system, the Knesset, electoral behavior, role of the military and media in the public sphere, and with a special emphasis on the role of leadership in Israel's history. Some previous knowledge of Israeli politics desirable

0101	Yoram Peri	Seats (Total: 25)
	M 2:00pm - 4:30pm	LEF 1220

ISRL449K **Advanced Topics in Israel Studies; Critical Issues in Israeli Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880s to the present at the advanced level. Individual sections may address history, politics, or culture. Some Sections may have language or course prerequisites.

Also offered as JWST429J, RELS419F, HEBR430 and FILM430. Credit granted for ISRL449K, JWST429J, RELS419F, HEBR430, or FILM430.

0101	Eric Zakim	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1103

ITAL Italian Fall 2015

ITAL103 **Intensive Elementary Italian**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Italian. Credit only granted for: ITAL103 or ITAL121.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Margherita Morando TuTh 9:30am - 10:45am W 10:00am - 10:50am	Seats (Total: 20) JMZ 3120 JMZ 0125
0201	Margherita Morando TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 20) JMZ 3120 PLS 1113
BL01	Federica Deigan MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 20) JMZ 2117 ONLINE
BL02	Federica Deigan MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 20) JMZ 2117 ONLINE

ITAL121 **Accelerated Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

Also offered as ITAL 121H.

Contact department for information to register for this course.

ITAL121H **Accelerated Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

For general honors students only. Also offered as ITAL 121.

Contact department for information to register for this course.

ITAL122 **Accelerated Italian II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL121; or must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL203 or ITAL122.

Continuation of ITAL121. Completion of accelerated cycle. May be used to satisfyARHU Global Engagement requirement.

Contact department for information to register for this course.

ITAL169C **Special Topics in Study Abroad I; Italian Conversation**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169E **Special Topics in Study Abroad I; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169R **Special Topics in Study Abroad I; Introduction to Italian Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL203 **Intensive Intermediate Italian**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed ITAL122; and must not be a fluent/native speaker of Italian. Credit only granted for: ITAL203 or ITAL122.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Margherita Morando TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 20) JMZ 1117 PLS 1113
BL01	Federica Deigan MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 20) JMZ 2120 ONLINE

ITAL204 **Review Grammar and Composition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL203 or ITAL122; or must have appropriate Foreign Language Placement Test (FLPT) score.

An intensive review of major aspects of contemporary grammatical usage; training in comprehension; an introduction to guided composition.

0101	Joseph Falvo MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 2123

ITAL207 **Reading and Writing in Italian**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: ITAL204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Italian.

Culture-based, process approach to reading and writing in Italian; selected grammatical topics.

Contact department for information to register for this course.

ITAL211 **Intermediate Conversation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: ITAL203; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Italian.

Practice in spoken Italian based on reading and listening exercises in variety of genres. Written assignments and exams.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 3120

ITAL261 **Cuisine, Culture, and Society in Italy Yesterday and Today**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: ITAL204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Exposes students to an important aspect of Italian culture: the art of gastronomy. Provides an in-depth understanding of the close relationship between food and culture, while enriching their knowledge of the Italian language through reading and analysis of various texts which deal with the preparation and adaptation of Italian food in different cultural settings. Taught in Italian.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 2125

ITAL269I **Special Topics in Study Abroad II; Intensive Intermediate Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269R **Special Topics in Study Abroad II; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL301 **Italian Composition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL207; or students who have taken courses with comparable content may contact the department.

Techniques of composition; grammatical analysis; various genres; vocabulary.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 1117

ITAL306 **Commercial Italian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ITAL301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An introduction to Italian Business language and culture. Special emphasis on communicative strategies used in business transactions and applications. Reading and discussion of relevant articles relating to business world from on-line newspapers and magazines.

Contact department for information to register for this course.

ITAL369W **Special Topics in Study Abroad III; Composition and Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ITAL399 **Directed Study in Italian**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

Contact department for information to register for this course.

ITAL399T **Directed Study in Italian; Tutoring**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

0101	Margherita Morando	Seats (Total: 5)
	Contact instructor or department for details.	

ITAL399V **Directed Study in Italian; Voices of Italy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

0101	Margherita Morando	Seats (Total: 5)
	Contact instructor or department for details.	

ITAL411 **Dante in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Dante's thought as expressed in his major writings: The Vita Nuova, De Monarchia and The Divine Comedy. Taught in English.

0101	Joseph Falvo	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1224

ITAL431 **Italian Civilization in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ITAL431 or ITAL432.

Political, social, intellectual, literary and artistic forces shaping contemporary Italy from the late Middle Ages to the present. Taught in English.

Contact department for information to register for this course.

ITAL471 **Italian Cinema: A Cultural Approach in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ITAL471 or ITAL472.

The culture of Italy through the medium of film from the silent days up to the present. Taught in English.

Contact department for information to register for this course.

ITAL473 **Italian Cinema II - In Translation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as: FILM431. Credit only granted for: ITAL473, ITAL474, or FILM431.

A study of Italian society and culture through the medium of film from the mid 1970's to the present. Taught in English.

0101	Mauro Resmini	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 2123

ITAL478C **Colloquium in Italian; Cinema**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Colloquium section taught in Italian to accompany 400-level Italian courses taught in English. Discussion, presentations, readings.

This colloquium correlates with ITAL473.

0101	Mauro Resmini	Seats (Total: 10)
	W 11:00am - 11:50am	JMZ 3118

ITAL478D **Colloquium in Italian; Dante in Translation**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Colloquium section taught in Italian to accompany 400-level Italian courses taught in English. Discussion, presentations, readings.

This colloquium correlates with ITAL411.

0101	Joseph Falvo	Seats (Total: 10)
	W 10:00am - 10:50am	JMZ 3118

ITAL497 **Senior Project**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 4 courses from ITAL400-499 course range; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Individual independent study of an aspect of Italian literature, cultur or society selected according to student interest and need in consultation with a member of the Italian program.

Contact department for information to register for this course.

ITAL499 **Special Topics in Italian Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499T **Special Topics in Italian Studies; Italian Cities: History through Urban Form**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499V **Special Topics in Italian Studies; Italian Comedy on Stage and Screen**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JAPN Japanese Fall 2015

JAPN101 **Elementary Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).

This course has been put on a timed release system. Seats will be opened gradually by the registrar's office, to a total of 15 seats per section.

0101	Etsuko Yamakita MWF 9:00am - 9:50am TuTh 9:30am - 10:45am	Seats (Total: 16) JMZ 1215 JMZ 2207
0201	Etsuko Yamakita, Lindsay Yotsukura MWF 10:00am - 10:50am TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 0122 JMZ 0118
0301	Etsuko Yamakita, Lindsay Yotsukura MWF 11:00am - 11:50am TuTh 12:30pm - 1:45pm	Seats (Total: 15) JMZ 1120 JMZ 3120

JAPN201 **Intermediate Japanese I**

Credits: 6 Grading Method: Regular CORE: HO

Prerequisite: Minimum grade of C- in JAPN102; or or appropriate Foreign Language Placement Test (FLPT) score.

Contemporary spoken and written Japanese.

0101	Kumiko Akikawa MWF 9:00am - 10:50am	Seats (Total: 15) JMZ 3203
0201	Kumiko Akikawa MWF 11:00am - 12:50pm	Seats (Total: 15) JMZ 0125

JAPN301 **Advanced Japanese I**

Credits: 6 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN202; or permission of instructor.

Advanced conversation, oral comprehension, and selected readings.

0201	Makiko Inoue MWF 11:00am - 12:50pm	Seats (Total: 15) JMZ 2125

JAPN325 **Modern Japanese Literature and Film (In Translation)**

Credits: 3 Grading Method: Regular

Explores and questions the significance of some of modern Japan's most dynamic historical transformations, pressing social issues, and modes of cultural expression. Covers the Meiji period (1868-1912) to the 21st century.

0101	Michele Mason TuTh 11:00am - 12:15pm	Seats (Total: 30) JMZ 0122

JAPN386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

JAPN401 **Readings in Modern Japanese Literature**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN302; or permission of instructor.

Development of advanced reading, vocabulary, grammar, and translation skills through selected readings in Japanese drawn primarily from modern literature.

0101	Michele Mason	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 2207

JAPN421 **History of the Japanese Language**

Credits: 3 Grading Method: Regular

Prerequisite: JAPN201; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Investigation of the origin of the Japanese language, its relationship with other languages, and its development. Taught in English, but presumes knowledge of Kanji (Chinese characters).

0101	Samuel Ramsey	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 2207

JAPN499 **Directed Study in Japanese**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

JOUR Journalism Fall 2015

JOUR130 **Self-Presentation in the Age of YouTube**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.
Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

Restricted to New Freshman only.

0101	Kelly Stepno MW 9:30am - 10:45am	Seats (Total: 20) KNI 1105
FC01	Renee Poussaint TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1105
FC02	Cassandra Clayton MW 3:00pm - 4:15pm	Seats (Total: 22) KNI 3202
FC03	Sharon O'Malley TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KEY 0125
FC04	Kelly Stepno MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) KNI 1103

JOUR150 **Introduction to Mass Communication**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DSSP

Restriction: Not open to students who have completed JOUR100 prior to Fall 1999. Additional information: Not applicable toward journalism major.

Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.

The following section (BL01) is part of the Fall 2012 Blended Iniative.

0101	Saranaz Abdollahzadeh Barforoush MW 12:30pm - 1:45pm	Seats (Total: 30) KNI 1103

0201	Boya Xu TuTh 12:30pm - 1:45pm	Seats (Total: 30) KNI 3202

JOUR175 **Media Literacy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE, D | General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

0101	Sarah Oates TuTh 2:00pm - 3:15pm	Seats (Total: 200) KEY 0106

JOUR181 **Grammar for Journalists**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL181, ENGL281, or JOUR181.

An examination of the basic structure of written English needed for precise journalistic writing. Parts of speech, sentence patterns, standard punctuation, diction, and usage will be examined with an emphasis on its application in journalism.

0101	Linda Coleman M 3:00pm - 3:50pm	Seats (Total: 85) KEY 0106
0201	Linda Coleman W 3:00pm - 3:50pm	Seats (Total: 70) KNI 1208
FC01	Nabila Hijazi F 11:00am - 11:50am *Restricted to students in Freshman Connection.*	Seats (Total: 35) EDU 1121

JOUR181U **Grammar for Journalists**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ENGL181, ENGL281, or JOUR181.

An examination of the basic structure of written English needed for precise journalistic writing. Parts of speech, sentence patterns, standard punctuation, diction, and usage will be examined with an emphasis on its application in journalism.

Restricted to New Freshman only.

0101	Linda Coleman M 3:00pm - 3:50pm	Seats (Total: 130) KEY 0106

JOUR199 **Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

0101	Adrianne Flynn Contact instructor or department for details.	Seats (Total: 40)

JOUR200 **Journalism History, Roles and Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the study of journalism from the standpoint of media history and sociology.

Non-journalism majors should contact the College of Journalism at (301) 405-2399 for permission to register.

0401	Saranaz Abdollahzadeh Barforoush MW 5:00pm - 6:15pm	Seats (Total: 30) KNI 1105
0501	Pallavi Guha TuTh 12:30pm - 1:45pm	Seats (Total: 30) KNI 1208
FC01	Justin Hudson TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 34) KNI 3202

JOUR200U **Journalism History, Roles and Structures**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to the study of journalism from the standpoint of media history and sociology.

Restricted to New Freshman only.

0101	Carl Stepp TuTh 11:00am - 12:15pm	Seats (Total: 30) KNI 1105
0201	Justin Hudson TuTh 2:00pm - 3:15pm	Seats (Total: 30) KNI 1103
0601	Ira Chinoy TuTh 9:30am - 10:45am	Seats (Total: 30) KNI 1208

JOUR201 **News Writing and Reporting I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

0201	Christine Harvey MW 10:00am - 11:50am	Seats (Total: 18) KNI 2105
0401	Merrilee Cox MW 5:00pm - 6:50pm	Seats (Total: 18) KNI 2103
0501	Tamara Cooke Henry MW 8:00am - 9:50am	Seats (Total: 18) KNI 2103

JOUR202 **News Editing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Copy editing, graphic principles and processes, new media technology.

0101	Jay Goldman TuTh 7:00pm - 8:50pm	Seats (Total: 18) KNI 2103

0301	Diana Huffman TuTh 10:00am - 11:50am	Seats (Total: 18) KNI 1101

JOUR203 **Introduction to Multimedia Skills**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR203 or JOUR328G. Formerly: JOUR328G.

Examining the basics of producing and editing digital photos, video, an audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	Timothy Jacobsen F 9:00am - 11:45am	Seats (Total: 18) KNI 2105
0201	Roland Hudson Tu 7:00pm - 9:45pm	Seats (Total: 18) KNI 2105
0301	Timothy Jacobsen W 4:15pm - 7:00pm	Seats (Total: 18) KNI 1101
0401	Jonathan Sham M 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101
0501	Jeffrey Young F 9:00am - 11:45am	Seats (Total: 18) KNI 1101
0601	Shanaz Baksh W 1:00pm - 3:45pm	Seats (Total: 18) KNI 2103
0701	Timothy Jacobsen F 12:00pm - 2:45pm	Seats (Total: 18) KNI 2105
0801	Jennifer Rynda W 1:00pm - 3:45pm	Seats (Total: 18) KNI 2107

JOUR262 **News Videography**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR203. Also offered as: JOUR603. Credit only granted for: JOUR262 or JOUR603.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Michael French MW 7:45pm - 9:35pm	Seats (Total: 10) KNI 3210
0301	Luke Rollins TuTh 7:00pm - 8:50pm	Seats (Total: 10) KNI 3210
0401	Bethany Swain MW 10:00am - 11:50am	Seats (Total: 8) TWS 0222B

JOUR289E **Media Law and Ethics in the Digital Age**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

This course is intended for non-journalism majors. Explore the First Amendment, libel, privacy, FOIA and copyright as they have evolved in the digital news age of bloggers, tweeters and citizen journalists. The course will cover fundamental legal and ethical concepts as well as practical application.

0101	Deborah Nelson MW 11:00am - 12:15pm	Seats (Total: 70) KNI 1208

JOUR289I **Information 3.0: Exploring Technological Tools**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSSP, SCIS

This innovative course blends face-to-face and virtual meetings with state-of-the art technology that includes mobile devices, a custom course app, and social media to address the overwhelming amounts of information from an increasing number of technologies. Instead of traditional written exams assignments, students learn and apply new ways to seek, select, share & learn from digital media. Students combine text and tweets with audio and video to address the sociological and psychological benefits and consequences of emerging technologies in school, work, and play.

0101	Ronald Yaros TuTh 11:00am - 12:15pm	Seats (Total: 70) KNI 1208

JOUR289J **Probing War: Investigative Narratives and American Conflicts**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, SCIS

0101	Christopher Hanson MW 11:00am - 12:15pm	Seats (Total: 25) KNI 1103

JOUR300 **Journalism Ethics**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Examination of ethical problems in news writing and reporting.

0101	Christopher Hanson TuTh 3:30pm - 4:45pm	Seats (Total: 25) KNI 1206
0201	Sharon O'Malley TuTh 11:30am - 12:45pm	Seats (Total: 25) KNI 3200
0301	Carl Stepp TuTh 2:00pm - 3:15pm	Seats (Total: 25) KNI 1105
0401	Sharon O'Malley TuTh 4:00pm - 5:15pm	Seats (Total: 25) KNI 3200

JOUR320 **News Writing and Reporting II: Multiplatform**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Principles and practices of news reporting; covering news beats and other news sources, including researching news stories for accuracy, comprehensiveness and interpretation. Due to rigorous publication requirement, plan your schedule accordingly.

0101	David Lightman MW 8:00am - 9:50am	Seats (Total: 18) KNI 2105
0201	Elaine Povich TuTh 8:00am - 9:50am	Seats (Total: 18) KNI 2107
0301	Thomas Linthicum MW 7:00pm - 8:50pm	Seats (Total: 18) KNI 2107

JOUR324 **Commentary and Editorial Writing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360. Formerly: JOUR326.

Journalistic interpretation and analysis; commentary and editorial writing.

0101	William Beecher TuTh 2:00pm - 3:15pm	Seats (Total: 16) KNI 1206

JOUR325 **Capital News Service Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism.

Advanced journalism training. Students report as part of College's Capital News Service program.

Also offered as JOUR625. Students must contact the instructor for permission to register.

0101	James Carroll Contact instructor or department for details. *This section meets in the National Press Building, Washington, DC.*	Seats (Total: 9)
0201	Karen Denny Contact instructor or department for details. *This section meets in the CNS Bureau, Annapolis, MD.*	Seats (Total: 9)
0301	Sean Mussenden Contact instructor or department for details.	Seats (Total: 10)

JOUR327 **Urban Affairs Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: JOUR320; and permission of instructor. Also offered as: JOUR627. Credit only granted for: JOUR327 or JOUR627.

Students are immersed in coverage of issues affecting cities, working on a semester-long multi-platform reporting project based in Baltimore.

Students will use Baltimore as a working laboratory to report on urban issues. Course meets in Baltimore.

0101	Sandra Banisky M 1:00pm - 3:45pm	Seats (Total: 7) Location: TBA

JOUR328B **Special Topics in News Writing and Reporting; Sports Reporting and Writing**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR 320. Contact department to obtain permission.

0101	George Solomon M 12:00pm - 2:45pm	Seats (Total: 13) KNI 1206

JOUR328M **Special Topics in News Writing and Reporting; Magazine Journalism**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320.

0101	Sarah Schaffer Th 5:00pm - 7:45pm	Seats (Total: 17) KNI 2107

JOUR328N **Special Topics in News Writing and Reporting; National Security and Press Freedom Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Students will learn to research and report on select U.S. agencies, on bilateral relations, on Washington's many national security resources, and on press freedom problems overseas. Prerequisite: Jour320; Credit only granted for: JOUR328N or JOUR462.

0101	Dana Priest M 10:00am - 12:45pm	Seats (Total: 10) KNI 3200

JOUR350 **Multimedia Presentation**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR202; or minimum grade of C- in JOUR262. Credit only granted for: JOUR350 or JOUR373.

An examination of the relationship of verbal and visual components of news content and the presentation of information in print and online publications by combining typography, graphics, images and interactivity using current digital technologies.

0201	George Lanum TuTh 12:00pm - 1:50pm	Seats (Total: 18) KNI 2103

JOUR352 **Intermediate Multimedia Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 or JOUR202. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Editing and writing online, using basic Web-coding skills and tools to create news and feature packages for the Internet. New-media issues, including interactivity and individualization, will also be discussed.

0101	Ljiljana Ciric Hoffmann Tu 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101
0201	James Hill W 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101
0301	Leslie Walker W 10:00am - 12:45pm	Seats (Total: 18) KNI 2107
0401	Mark Young Th 6:00pm - 8:45pm	Seats (Total: 8) KNI 2105
0501	Alexander Pyles Th 7:00pm - 9:45pm	Seats (Total: 18) KNI 1101

JOUR353 **News Bureau: Multimedia Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: JOUR352; and permission of JOUR-Philip Merrill College of Journalism; and (JOUR320 or JOUR360).

Advanced reporting and writing in an online environment focusing on multimedia and non-traditional storytelling.

Students must contact the instructor for permission to register for the course. College Park students should enroll in section 0101. Annapolis students should enroll in section 0201. Washington, D.C. students should enroll in section 0301.

0101	Sean Mussenden Contact instructor or department for details.	Seats (Total: 7)
0201	Karen Denny Contact instructor or department for details.	Seats (Total: 7)
0301	James Carroll Contact instructor or department for details.	Seats (Total: 7)

JOUR354 **Interactive Multimedia Storytelling**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR352. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Advanced development of multimedia journalism, with emphasis on interactivity and application of new technologies, drawing on multiple sources, technologies and techniques to create interactive narratives.

0101	Corey Kliewer W 7:00pm - 9:45pm	Seats (Total: 7) TWS 0222A

JOUR360 **News Writing and Reporting II: Broadcast**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Writing and reporting for broadcast media: production of news stories.

0101	Renee Poussaint TuTh 2:00pm - 3:15pm	Seats (Total: 18) KNI 2103
0102	Mary Burns TuTh 12:30pm - 1:45pm	Seats (Total: 18) KNI 1101

0103	Cassandra Clayton MW 12:00pm - 1:15pm	Seats (Total: 18) KNI 2105
0104	Stuart Schwartz TuTh 12:00pm - 1:15pm	Seats (Total: 18) KNI 2107

JOUR361 **Television Reporting and Production**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360.

Writing and editing for the broadcast media. Interpretive and documentary news stories.

Due to rigorous fieldwork requirement, plan your schedule accordingly.

0101	Scott Rensberger TuTh 10:00am - 11:50am	Seats (Total: 12) TWS 0222B
0201	John DeDakis, Kevin Johnson TuTh 7:15pm - 9:05pm	Seats (Total: 12) TWS 0222B
0301	Joshua Davidsburg MW 12:00pm - 1:50pm	Seats (Total: 12) TWS 0222A
0501	Joshua Davidsburg MW 2:00pm - 3:50pm	Seats (Total: 12) TWS 0222A
0601	Joshua Davidsburg TuTh 10:00am - 11:50am	Seats (Total: 12) TWS 0222A
0701	John DeDakis, Christopher Shlemon TuTh 5:00pm - 6:50pm	Seats (Total: 12) TWS 0222A

JOUR362 **Broadcast News Producing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360; and must have completed or be concurrently enrolled in JOUR361.

Producing TV news.

0102	Cindy Wright Tu 7:15pm - 9:15pm Tu 2:00pm - 6:50pm	Seats (Total: 2) TWS 0222A TWS 0117	 Lab
0104	Cindy Wright Tu 7:15pm - 9:15pm Th 2:00pm - 6:50pm	Seats (Total: 2) TWS 0222A TWS 0117	 Lab

JOUR364 **Radio Broadcasting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR360; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR364 or JOUR368R. Formerly: JOUR368R.

Students receive hands-on training in applying what they have learned about news reporting to the preparation of stories for, and the production of, a weekly radio program.

0101	Jamie Forzato Th 4:00pm - 6:45pm	Seats (Total: 12) KNI 2103

JOUR367 **Broadcast News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit General Education: DSSP

Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

Also offered as JOUR667.

0101	Susan Katcef Contact instructor or department for details.	Seats (Total: 8)

JOUR368B **Topics in Broadcast and Electronic Media; Broadcast Sports Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262, JOUR360, JOUR361, and permission of department.

0101	David Owens	Seats (Total: 12)
	Tu 10:00am - 12:45pm	KNI 2109

JOUR368M **Topics in Broadcast and Electronic Media; Multimedia Mobile Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR203, JOUR320 or JOUR360. In many ways, multimedia content is collected, presented and consumed differently than content presented on websites. This class focuses exclusively on these processes by exploring the best apps and the best practices for today's mobile journalist.

0101	Ronald Yaros	Seats (Total: 16)
	TuTh 12:30pm - 1:45pm	KNI 1206

JOUR368V **Topics in Broadcast and Electronic Media; Advanced Video Storytelling**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR361 and permission of instructor. Students will learn advanced storytelling, shooting and editing techniques for multi-platform video, using character-driven, natural sound packages to produce in-depth projects on a common theme.

0101	Bethany Swain	Seats (Total: 7)
	M 1:00pm - 3:45pm	TWS 0222B

JOUR370 **Photojournalism**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR320 or JOUR360. Credit only granted for: JOUR 368P, JOUR 370 or JOUR 670. Formerly: JOUR 368P. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.

Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.

0101	Cheryl Meyer	Seats (Total: 12)	
	Th 5:00pm - 6:15pm	KNI 1208	
	Tu 3:30pm - 4:45pm	KNI 2103	Lab

0201	Cheryl Meyer	Seats (Total: 11)	
	Th 5:00pm - 6:15pm	KNI 1208	
	Tu 5:00pm - 6:15pm	KNI 2103	Lab

JOUR371 **Feature Writing**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JOUR320.

Research and writing feature articles.

Majors only.

0301	Marlene Cimons	Seats (Total: 18)
	Tu 4:00pm - 6:45pm	KNI 2107

JOUR389B **News Coverage of Special Topics; BROADCASTING THE GAMES: Covering Sports in Action**

(Perm req)

Credits: 3 Grading Method: Regular

Advanced training and practice in writing and reporting news in one specialized field of interest.

Prerequisite: JOUR262 and JOUR360; or permission of department. A comprehensive course on play-by-play coverage of varsity sports on the University of Maryland campus. Students will conduct research to prepare to cover sporting events and then be assigned to cover specific games. Emphasis is on production and play-by-play accounts and analysis. Student work will appear on television, radio and the internet.

0101	Mark Gray	Seats (Total: 10)
	Th 6:30pm - 9:15pm	KNI 3200

JOUR396 **Supervised Internship**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Must have earned a grade of C- or better in JOUR320 or JOUR360. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. Students may pick up an internship proposal form in KNI 1100, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted. This requirement would affect incoming freshmen from the fall 2012 class.

0101	Adrianne Flynn	Seats (Total: 45)
	Contact instructor or department for details.	

JOUR398 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual projects in journalism.

Contact department for information to register for this course.

JOUR399 **Supervised Internship**

(Perm req)

Credits: 1 Grading Method: Regular

Supervised news internship experience; relation of academic training to professional experience.

Prerequisite: Grade of C- or better in JOUR320 or JOUR360. Credit will be granted for only one of the following: JOUR326, JOUR366, JOUR396 or JOUR399. Supervised news internship experience; relation of academic training to professional experience. Students must pick up an internship agreement form in KNI 1100, have the internship supervisor fill it out, and meet with the Internship Director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted.

0101	Adrianne Flynn	Seats (Total: 75)
	Contact instructor or department for details.	

JOUR400 **Media Law**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320, JOUR360, or JOUR501. Restriction: Junior standing or higher.

Legal rights and constraints of mass media; libel, privacy, copyright, monopoly, contempt, and other aspects of the law applied to mass communication. Previous study of the law not required.

Restricted to students having earned at least 60 credits.

0101	Deborah Nelson	Seats (Total: 58)
	MW 4:00pm - 5:15pm	KNI 1208

0201	Sandra Banisky TuTh 2:00pm - 3:15pm	Seats (Total: 50) KNI 1208

JOUR452 **Women in the Media**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

Restriction: Junior standing or higher. Also offered as: WMST452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Linda Steiner TuTh 9:30am - 10:45am	Seats (Total: 30) KNI 1105

JOUR453 **News Coverage of Racial Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DVUP

Restriction: Junior standing or higher.

Analysis of news media coverage of issues relating to racial minorities in the United States, with special attention to Hispanics, Asian Americans, African Americans and Native Americans.

Also offered as AASP 499N.

0101	Anne Rosen TuTh 9:30am - 10:45am	Seats (Total: 30) KNI 3202

JOUR455 **Media Entrepreneurship**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: JOUR459E or JOUR455. Formerly: JOUR459E.

Basic business and entrepreneurship concepts will be covered and will explore how technology is transforming the business of media. Students develop and pitch ideas for media businesses, learn startup basics, do exercises in Internet advertising and business plan analysis, use social networks and other digital communication tools, and perform other hands-on exercises in business development and presentation.

0101	David Cross W 6:00pm - 8:45pm	Seats (Total: 18) KNI 1206

JOUR456 **Literature in Journalism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Also offered as: JOUR673. Credit only granted for: JOUR456 or JOUR673.

From Truman Capote's In Cold Blood to Mark Bowden's Black Hawk Down, students will examine how literary works can help writers approach a subject in a different way than more traditional forms of journalism, including the advantages and limitations of the style.

0101	Kevin Klose TuTh 9:30am - 10:45am	Seats (Total: 18) KNI 1206

JOUR458B **Special Topics in Journalism; Sports Media Today**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

0101	Chartese Burnett Th 6:15pm - 9:00pm	Seats (Total: 25) KNI 1208

JOUR458G **Special Topics in Journalism; How Sports Journalism Constructs Our World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concerns and current interest.

Junior Standing and writing experience.

0101	Kevin Blackistone MW 10:00am - 11:15am	Seats (Total: 15) KNI 1206

JOUR459F **Special Topics in Journalism; Media in War and Crisis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459K **Special Topics in Journalism; Global Media and International Journalism in the 21st Century**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459L **Special Topics in Journalism; European Mass Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459V **Special Topics in Journalism; Media and International Affairs**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR472 **Computer-Assisted Reporting**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360.

Computer and online data acquisition; analytical methods for writing and reporting news.

Students must contact Associate Dean Rafael Lorente for permission to register.

0101	Daniel Keating	Seats (Total: 5)
	TuTh 9:00am - 10:50am	KNI 2105

JOUR476 **Researching Emerging Media in Journalism: Past, Present and Future**

(Perm req)

Credits: 3 Grading Method: Regular, Audit General Education: DSHS

Prerequisite: Must have completed a university statistics course. Credit only granted for: JOUR479W or JOUR476. Formerly: JOUR479W.

Students will examine developments billed as innovative in the current technology-laden news ecology -- such as social networking, mobile reporting and computational journalism -- and the blurring of lines between hard news, informed opinion and advocacy. While questions about the future cannot be answered with any certainty, an exploration of the past allows us to see what happened when new technologies, information systems and practices appeared as possible tools for use by journalists and the communities they served. Students will learn to use tools for researching emerging media, including UMD library databases and open access databases. The course will include presentations by the instructor, discussions based on class readings, in-class exercises in small groups and student presentations. Each student will engage in a "Decades" research project.

0101	Ira Chinoy	Seats (Total: 17)
	MW 10:00am - 11:15am	KNI 1101

JOUR479D **Special Topics in Data Gathering and Analysis; Storytelling with Data Visualization**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: A university statistics course. Students must contact the instructor for permission to register (nad@umd.edu). This course covers the use of data visualization as a method to communicate news stories (narrative visualization) and as a way to find new news stories (visual analytics) in a journalism context. Students will learn core concepts of visualization like how to apply theories of perception, color, and visual mapping, while also practicing design skills, and implementing interactive data visualizations using both off-the-shelf tools as well as custom-built code.

0101	Nicholas Diakopoulos	Seats (Total: 8)
	M 1:00pm - 3:45pm	KNI 2107

JOUR479E **Special Topics in Data Gathering and Analysis; Dollars and Deadlines - Reporting on the World of Business**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: A university statistics course.

0101	Rob Wells	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	KNI 1101

JOUR479O **Special Topics in Data Gathering and Analysis; Understanding Audiences**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Must have completed a university statistics course. As journalism evolves, it may be more important than ever to understand what were once simply called "audiences"- who they are, how they consume news, and what that engagement means for them and for society. Students will learn to think critically about news audiences and contemporary issues in audience research.

0101	Boya Xu	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	KNI 1101

JOUR479Z **Special Topics in Data Gathering and Analysis; Researching and Fact-Checking in the Social Media Age**

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Must have completed a university statistics course. This course goes beyond the basic Google search and teaches students to track down key documents and information essential to good reporting and journalism. During the course, students will learn how to access and read complex data, legal documents, criminal complaints and access key databases.

0101	Sheila Lalwani	Seats (Total: 17)
	Tu 4:00pm - 6:45pm	KNI 2105

JOUR480 **Capstone Colloquium: The Business of News**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and junior standing or higher; and permission of JOUR-Philip Merrill College of Journalism.

Students will learn the basic news business concepts and examine how revenue and cost structures for media businesses are evolving in new directions. Topics include basic principles and concepts that drive media businesses in the Internet age, including revenue sources, dynamics of online advertising and subscriptions, mobile media strategies, user metrics, engaging audiences, and market dynamics.

0101	Leslie Walker	Seats (Total: 70)
	Meets August 31, 2015 - October 19, 2015	
	M 5:30pm - 7:20pm	KNI 1208
	Schedule adjustment is the first week of classes only.	

JOUR501 **Fundamentals of Writing and Editing**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.

Principles of news and feature writing. For graduate students with limited prior training or experience in journalism.

0101	Sandra Banisky	Seats (Total: 18)
	TuTh 10:00am - 11:50am	KNI 2107

JOUR504 **Introduction to Multimedia Skills**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Corequisite: JOUR501; or permission of instructor. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR504 or JOUR628G. Formerly: JOUR628G.

Examining the basics of producing and editing digital photos, video, an audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	James McIntyre	Seats (Total: 15)
	F 9:00am - 11:45am	KNI 2103

JOUR531 **Humphrey Seminar I**

(Perm req)

Credits: 2

Grading Method: Regular

Introduction to journalism issues; American culture and government; and leadership training.

0101	Serap Rada	Seats (Total: 12)
	F 10:00am - 1:00pm	KNI 1109

JOUR601 **Theories of Journalism and Public Communication**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.

Survey and evaluation of current communication theories. Attention is given to the nature and function of scientific theory, models of communication behavior, the nature of information, social functions of journalism and public communication, attitude change and persuasive communication and theories of language and meaning.

0101	Linda Steiner	Seats (Total: 10)
	W 1:00pm - 3:45pm	KNI 2109

JOUR603 **News Videography**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: JOUR504; and permission of Journalism College required. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Also offered as: JOUR262. Credit only granted for: JOUR503 or JOUR603. Formerly: JOUR503.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Bethany Swain	Seats (Total: 2)
	MW 10:00am - 11:50am	TWS 0222B

JOUR604 **Introduction to Multimedia Skills for Graduate Certificate Programs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of JOUR-Philip Merrill College of Journalism; and must not have completed JOUR504. Credit only granted for: JOUR 604, JOUR504, or JOUR628G. Formerly: JOUR628G. Additional information: This course is for students enrolled in graduate certificate programs in the College of Journalism.

Examine the basics of producing and editing digital photos, video and audio for news. Topics include framing, lighting and other aspects of composition; sequencing, using wide, medium and tight shots; and ethical considerations when collecting sound and visuals.

PCJ1	Emma Schwartz	Seats (Total: 15)
	Sa 8:30am - 12:15pm	KNI 1101
	Restricted to students in the Multimedia Journalism Certificate program	

JOUR610 **Seminar in Mass Media History**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: JOUR610 or JOUR710. Formerly: JOUR710.

Analysis and discussion of the interrelationships between the mass media and society, including various social and cultural elements of modern society; responsibilities of the mass media and the mass communicator.

0101	Mark Feldstein M 2:00pm - 4:45pm	Seats (Total: 10) KNI 1109

JOUR620 **Public Affairs Reporting**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: JOUR501; or permission of JOUR-Philip Merrill College of Journalism.

Designed to add to and sharpen the skills learned in JOUR501. It is primarily an introduction to "beat" reporting that allows students to sample the most common new beats while reporting and writing on deadline. Students are required to develop and hone their multimedia skills by reporting in a variety of media.

0101	Adrianne Flynn TuTh 10:00am - 11:50am	Seats (Total: 18) KNI 2103

JOUR624 **Commentary and Editorial Writing**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: JOUR624 or JOUR628N. Formerly: JOUR628N.

Journalistic interpretation and analysis; commentary and editorial writing.

0101	William Beecher TuTh 2:00pm - 3:15pm	Seats (Total: 2) KNI 1206

JOUR625 **Advanced Capital News Service Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Prerequisite: JOUR620; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR625 or JOUR729. Formerly: JOUR729.

Advanced journalism training. Students report as part of College's Capital News Service program.

0101	James Carroll Contact instructor or department for details.	Seats (Total: 9)
0201	Karen Denny Contact instructor or department for details.	Seats (Total: 9)

JOUR627 **Urban Affairs Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: JOUR501; and permission of JOUR-Philip Merrill College of Journalism. Corequisite: JOUR620; or permission of JOUR-Philip Merrill College of Journalism. Also offered as: JOUR327. Credit only granted for: JOUR327 or JOUR627.

Students are immersed in coverage of issues affecting cities, working on a semester-long multi-platform reporting project based in Baltimore.

Students will use Baltimore as a working laboratory to report on urban issues. Course meets in Baltimore.

0101	Sandra Banisky M 1:00pm - 3:45pm	Seats (Total: 1) Location: TBA

JOUR628B **Specialized Topics in News Writing and Reporting; Sports Reporting and Writing**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

Course shares space with JOUR328B.

0101	George Solomon M 12:00pm - 2:45pm	Seats (Total: 4) KNI 1206

JOUR628M **Specialized Topics in News Writing and Reporting; Magazine Journalism**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

0101	Sarah Schaffer Th 5:00pm - 7:45pm	Seats (Total: 1) KNI 2107

JOUR628N **Specialized Topics in News Writing and Reporting; National Security and Press Freedom Reporting**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Advanced training and practice in writing and reporting news. Repeatabl to a maximum of six credits provided the content differs.

Students will learn to research and report on select U.S. agencies, on bilateral relations, on Washington's many national security resources, and on press freedom problems overseas. Credit only granted for: JOUR628N or JOUR762.

0101	Dana Priest M 10:00am - 12:45pm	Seats (Total: 6) KNI 3200

JOUR652 **Intermediate Multimedia Journalism**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Corequisite: Offered to students enrolled in a journalism master's degree or certificate. JOUR 504 (formerly 628G) or JOUR 604 (a new course number for certificate students) is a pre- or co-requisite. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Editing and writing online, using basic Web-coding skills and tools to create news and feature packages for the Internet. New-media issues are also discussed and social media tools and ethics explored.

0101	Mark Young Th 6:00pm - 8:45pm	Seats (Total: 10) KNI 2105
PCJ1	Mark Smith Sa 1:30pm - 5:15pm *Restricted to students in the Multimedia Journalism Certificate program*	Seats (Total: 15) KNI 2105

JOUR654 **Advanced Interactive Multimedia Storytelling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: JOUR652; and permission of JOUR-Philip Merrill College of Journalism.

Learning and applying Flash and/or other interactive tools to assemble multiple media (i.e. graphics, video, etc.) to create interactive narratives.

0101	Corey Kliewer W 7:00pm - 9:45pm	Seats (Total: 3) TWS 0222A

JOUR655 **Advanced Online News Bureau**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Prerequisite: JOUR603 or JOUR620; and (JOUR504 and JOUR652). Or permission of JOUR-Philip Merrill College of Journalism.

Advanced online journalism training. Students work as online reporters, editors and producers for a news site. Students also package copy from the print and broadcast news bureaus.

Prerequisites: JOUR 620 and 652 or equivalent. Contact the instructor to obtain permission. Course shares space with JOUR355.

0101	Sean Mussenden F 9:00am - 5:00pm	Seats (Total: 4) KNI 3210

JOUR661 **Television Reporting and Production**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: JOUR603; or students who have taken courses with comparable content may contact the department. Restriction: Must not be in Journalism Studies (Doctoral) program.

Reporting, writing, editing and production of broadcast news.

0102	Sean Filburn, Mark Feldstein MW 10:00am - 11:50am	Seats (Total: 10) TWS 0222A

JOUR662 **Broadcast News Producing**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed or be concurrently enrolled in JOUR661; and (JOUR603 and JOUR660). Also offered as: JOUR362. Credit only granted for: JOUR668B or JOUR662. Formerly: JOUR668B.

Learn and practice the basics of broadcast newscast producing. Design, write, edit and implement a news program.

0101	Cindy Wright Tu 7:15pm - 9:15pm W 2:00pm - 6:50pm	Seats (Total: 2) TWS 0222A TWS 0117	 Lab

JOUR667 **Broadcast News Bureau**

(Perm req)

Credits: 6

Grading Method: Regular, Audit

Prerequisite: JOUR503; or students who have taken courses with comparable content may contact the department. And permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

Also offered as JOUR367.

0101	Susan Katcef	Seats (Total: 8)
	Contact instructor or department for details.	

JOUR668V **Topics in Broadcasting and Electronic Media; Advanced Video Storytelling**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR661 and permission of instructor. Students will learn advanced storytelling, shooting and editing techniques for multi- platform video, using character-driven, natural sound packages to produce in-depth projects on a common theme.

0101	Bethany Swain	Seats (Total: 3)
	M 1:00pm - 3:45pm	TWS 0222B

JOUR670 **Photojournalism**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Prerequisite: JOUR504. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR 368P, JOUR 370 or JOUR 670. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.

Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.

0101	Cheryl Meyer	Seats (Total: 1)	
	Th 5:00pm - 6:15pm	KNI 1208	
	Tu 5:00pm - 6:15pm	KNI 2103	Lab

JOUR698 **Special Problems in Communication**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR698L **Special Problems in Communication; Graduate Research Colloquium**

Credits: 1

Grading Method: Regular, Audit

Independent study in area of the student's interest.

0101	Kalyani Chadha	Seats (Total: 12)
	M 9:00am - 10:30am	KNI 2109

JOUR702 **Journalism Law and Ethics**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Journalism - Master (Master's); Journalism Studies (Doctoral)) ; or permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR400, JOUR 600, JOUR700, or JOUR 702.

An examination of the legal rights and ethical problems and constraints of mass media, including libel, privacy, copyright, monopoly and contempt.

0101	Diana Huffman	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KNI 3202

JOUR772 **Methods in Computer-Assisted Reporting**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR501; or students who have taken courses with comparable content may contact the department.

Computer-assisted (database) journalism; obtaining, manipulating and analyzing complex government data for journalism projects.

0101	Daniel Keating	Seats (Total: 13)
	TuTh 9:00am - 10:50am	KNI 2105

JOUR779D **Seminar in Research Problems; Storytelling with Data Visualization**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Methods of research design and analysis in specialized areas of journalism and public communication research.

Student must contact the instructor for permission to register (nad@umd.edu). This course covers the use of data visualization as a method to communicate news stories (narrative visualization) and as a way to find new news stories (visual analytics) in a journalism context.Students will learn core concepts of visualization like how to apply theories of perception, color, and visual mapping, while also practicing design skills, and implementing interactive data visualizations using both off-the-shelf tools as well as custom-built code.

0101	Nicholas Diakopoulos M 1:00pm - 3:45pm	Seats (Total: 6) KNI 2107

JOUR798 **Master's Professional Fieldwork**

(Perm req)

Credits: 2-6

Grading Method: Sat-Fail

Research for and preparation of news articles or programs for use in th media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 **Master's Thesis Research**

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

JOUR800 **Introduction to Doctoral Study in Journalism and Public Communication**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit only granted for: JOUR700 or JOUR800. Formerly: JOUR700.

Basic skills in journalism and public communication research.

0101	Sarah Oates W 9:00am - 11:45am	Seats (Total: 10) KNI 2109

JOUR808B **Doctoral Colloquium; Teaching as a Transformative Enterprise**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Guided discussion of professional and theoretical topics.

0101	Sarah Oates	Seats (Total: 5)
	W 12:30pm - 2:00pm	KNI 1109

JOUR888 **Doctoral Professional Field Work**

Credits: 3-9 Grading Method: Regular, Audit

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 **Doctoral Tutorial in Journalism and Public Communication**

Credits: 3-9 Grading Method: Regular, Audit

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JOUR899 **Doctoral Dissertation Research in Journalism and Mass Communication**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

JWST Jewish Studies Fall 2015

JWST141 **American Jewish Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, DVUP

Also offered as: HIST106. Credit only granted for: HIST106 or JWST141.

History of the Jews in America from Colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.

0101	Marsha Rozenblit TuTh 11:00am - 12:15pm	Seats (Total: 33) TLF 2103	

JWST219C **Special Topics in Jewish Studies; Contemporary Israel: History and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219D **Special Topics in Jewish Studies; Women in Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST219E **Special Topics in Jewish Studies; Writing Israel**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

JWST233 **Why the Jews? Historical and Cultural Investigations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSHU, DVUP

Restriction: Must not have completed HIST282, HIST283, JWST234, or JWST235. Also offered as: HIST287. Credit only granted for: JWST233 or HIST287.

Examines the history and culture of the Jews from the thirteenth century BCE/BC to the present through an examination of significant themes or problems (such as "religion" or "diaspora") that shape our understanding of the Jewish people. A primary focus in the course will be on texts, artifacts, and other cultural products by Jews and others that illustrate the history of the Jews help understand their cultural heritage.

0101	Hayim Lapin TuTh 12:30pm - 1:20pm M 11:00am - 11:50am	Seats (Total: 20) KEY 0102 TYD 1114	 Discussion
0102	Hayim Lapin TuTh 12:30pm - 1:20pm M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 EGR 1102	 Discussion

0103	Hayim Lapin TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0102 KEY 0124	Discussion

JWST260 **Introduction to Classical Hebrew I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HEBR111; or students who have taken courses with comparable content may contact the department. Formerly: HEBR401.

Readings of the Bible and other classical texts in original Hebrew. Emphasis on classical grammar and vocabulary, and reading of textual passages.

Also offered as HEBR298A. Credit only granted for JWST260 or HEBR298A.

0101	Matthew Suriano MWF 2:00pm - 2:50pm	Seats (Total: 15) JMZ 3118

JWST262 **Introduction to the Hebrew Bible/Old Testament**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Also offered as: ENGL262. Credit only granted for: JWST262, HEBR223 or ENGL262. Formerly: HEBR223.

An exploration of the origins and compositional history of biblical literature. Critical study of texts and socio-historical analysis of their background.

0101	Maxine Grossman MWF 11:00am - 11:50am	Seats (Total: 40) SQH 1105

JWST275 **The Jew and the City through the Centuries**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Also offered as: HIST286. Credit only granted for: HIST286 or JWST275.

Jewish urban experience from ancient times to the present. Public space and private. The city and the sacred. Jewish ghettos and quarters. The struggle over modern Jerusalem.

Also offered as HIST286. Credit will be granted only to JWST275 or HIST286.

0101	Bernard Cooperman TuTh 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0102 JMZ 1117	Discussion
0102	Bernard Cooperman TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0102 TYD 1132	Discussion
0103	Bernard Cooperman TuTh 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 LEF 1221	Discussion
0104	Bernard Cooperman TuTh 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 20) KEY 0102 SQH 1123	Discussion

JWST282 **Elementary Yiddish II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: JWST281; or permission of ARHU-Meyerhoff Program & Center for Jewish Studies.

Continuation of JWST281.

Also offered as GERM149Z. Credit will be granted for GERM149Z or JWST282.

0101	Adi Mahalel TuTh 12:30pm - 1:45pm	Seats (Total: 15) SQH 1123

JWST289J **Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP, SCIS

Also offered as RELS289J. Credit will be granted for JWST289J or RELS289J. The questions of sacred space through the topic of Jerusalem are explored. The study of Jerusalem's history as a holy city reveals the many ways by which sacred space is constructed. It will also examine the development of places that continue to hold great sanctity in Judaism (the Western Wall), Christianity (the Church of the Holy Sepulchre and the Mount of Olives), and Islam (the Dome of the Rock and the Al-Aqsa Mosque on the Haram ash-Sharif).

0101	Matthew Suriano MW 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) ASY 2309 LEF 1222	Discussion
0102	Matthew Suriano MW 12:00pm - 12:50pm Th 3:00pm - 3:50pm	Seats (Total: 20) ASY 2309 LEF 1222	Discussion
0103	Matthew Suriano MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2309 WDS 1127	Discussion
0104	Matthew Suriano MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 WDS 1127	Discussion

JWST319B **Special Topics in Jewish Studies; Arab-Israeli Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319C **Special Topics in Jewish Studies; Women and Jewish Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Also offered as ENGL348J, WMST348J and CMLT398K. Credit granted for JWST319C, ENGL348J, WMST348J, or CMLT398K. An exploration of Jewish women and Jewish literacy. What kind of access throughout Jewish history have women had to Jewish languages and literatures, and how has that affected their role in Jewish society? During the modern period, what is the link between Jewish women's authorship and their reading lives? In this class we will study essays, fiction, memoirs, poetry and drama.

0101	Sheila Jelen TuTh 2:00pm - 3:15pm	Seats (Total: 35) TWS 0236	

JWST319E **Special Topics in Jewish Studies; Literature of the Shoah**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319L **Special Topics in Jewish Studies; Sex in Yiddish Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in Jewish Studies.

A journey through colorful classic works of Yiddish literature, with a focus on their engagement with sex and gender.

0101	Adi Mahalel	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	SQH 1103

JWST319M **Special Topics in Jewish Studies; Beyond Black and White: Jews and Representations of Race**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Topics in Jewish Studies.

Also offered as ISRL349Z. Credit granted for ISRL349Z or JWST319M. An examination of Western constructions and representations of 'race' from medieval times to the modern rise of Zionism and the founding of Israel, with a focus on how Jews utilized the racial discourses of each period to negotiate their position within Western history.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

JWST331 **Early Christianity: Jesus to Constantine**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: HIST320. Credit only granted for: HIST320 or JWST331.

Social and religious history of early Christianity from its origin in the first century to the reign of Constantine.

Additional note: Also offered as RELS319C. Credit will be granted for HIST320, JWST331, or RELS319C.

0101	Hayim Lapin	Seats (Total: 36)
	TuTh 2:00pm - 3:15pm	KEY 0103

JWST346 **Representing the Holocaust**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as: ENGL332. Credit only granted for: ENGL379J, JWST419I, ENGL332, or JWST346. Formerly: ENGL379J and JWST419I.

Different perspectives on how the Holocaust should be represented. Examination of a wide range of texts including fiction, memoirs, critical essays, poems and films in different languages (in translation). Emphasis on the international and comparative nature of Holocaust literary studies and investigation into the propriety of literary representation of historical catastrophe. Consideration of our own role as readers serving as witnesses to an event that has marked itself indelibly in the aesthetic history of the twentieth century.

Additional Note: Also offered as ENGL332, CMLT398J and ISRL329J. Credit granted for ENGL379J, JWST419J, ENGL332, JWST346, or ISRL329J.

0101	Sheila Jelen	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	TWS 0236

JWST347 **Religious Movements in European Jewish History**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSHS, DVUP

Credit only granted for: JWST419E, JWST347, HIST419Q, HIST429X, JWST419R, or RELS419R. Formerly: JWST419E, JWST419R.

An exploration of the history of the different modern Jewish religious movements that developed in Europe, starting with messianic movements and ending with Reform and Orthodoxy. Emphasis will be placed on the influence of the academic study of Judaism on the development of modern Jewish religious ideologies and practices.

Also offered as HIST429X and RELS419R.

0101	Rachel Manekin	Seats (Total: 40)
	MW 2:00pm - 3:15pm	SQH 1101

JWST369A **Special Topics in Study Abroad III; The Holocaust: 20th Century Jewish Thought**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST386 **Experiential Learning in Jewish Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Meyerhoff Program & Center for Jewish Studies. Restriction: Junior standing or higher.

The Jewish Studies Program's internship program. Pre-professional experience in research, analysis, and writing related to Jewish Studies in a variety of work settings.

0101	Instructor: TBA	Seats (Total: 15)
	Contact instructor or department for details.	

JWST409E **Research Seminar in Jewish Studies; Judaism through Gender**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A capstone course for Jewish Studies. Guides students through advanced source material and subject matter, research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

Also offered as WMST498T. Credit granted for JWST409E or WMST498T. A consideration of the study of Jewish history, literature, culture, and ideas through the lens of gender studies: what does it mean to be a Jewish man or woman? How does Jewish law, tradition, and social structure assume the importance of gender norms, even as these norms are always under discussion and dispute? Research seminar; students will work through advanced source material and subject matter, cultivating research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

0101	Maxine Grossman	Seats (Total: 15)
	W 2:00pm - 4:30pm	SQH 1111

JWST418 **Honors Thesis Research in Jewish Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Guided research on a thesis under the supervision of the Jewish Studies faculty.

Prerequisite: Permission of department.

0101	Instructor: TBA	Seats (Total: 1)
	Contact instructor or department for details.	

JWST429J **Advanced Topics in Jewish Studies; Critical Issues in Israeli Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics at an advanced level for Jewish Studies. Primarily intended for majors and graduate students.

Also offered as RELS419F, ISRL449K, HEBR430, and FILM430. Credit granted for JWST429J, RELS419F, ISRL449K, HEBR430 or FILM430.

0101	Eric Zakim	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1103

JWST452 **The Golden Age of Jewish Philosophy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 credits in PHIL courses; or permission of ARHU-Meyerhoff Program & Center for Jewish Studies. Restriction: Must not have completed PHIL417. Also offered as: PHIL417. Credit only granted for: JWST452 or PHIL417.

Jewish philosophy from Maimonides in the 12th Century to the expulsion of the Jews from Spain at the end of the 15th Century. Topics include the limitations of human knowledge, creation of the world, foreknowledge and free will, and the existence of God.

0101	Charles Manekin	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1103

JWST478M **Readings in Modern Hebrew; Hasidism and Its Opponents: Readings in Modern History**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Variable topics in Modern Hebrew Literature.

Also offered as HIST418D. Credit granted for JWST478M or HIST418D. Text in Hebrew. Taught in English. Prerequisite: HEBR313; or permission of instructor. Readings from classical Hasidic masters (Baal Shem Tov, R. Nachman of Bratslav, the first Lubavitcher rebbe_ and their opponents (R. Elijah ofVilna and Joseph Perl) in their historical context. The readings will bein Hebrew but the class will be taught in English. Vocabulary lists will be provided.

0101	Rachel Manekin	Seats (Total: 15)
	MW 4:30pm - 5:45pm	SQH 1123

JWST499 **Independent Study in Jewish Studies; Independent Study in Jewish Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

JWST609 **Supervised Instruction-Practicum in Jewish Studies**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Supervised instruction or supervised practicum in Jewish Studies. Intended for graduate students whose course work includes field work or classroom teaching.

0101	Charles Manekin Contact instructor or department for details.	Seats (Total: 1)
0107	Charles Manekin Contact instructor or department for details.	Seats (Total: 1)

JWST619 **Directed Readings in Jewish Studies**

(Perm req)

Credits: 3 Grading Method: Regular

Independent Study in Jewish Studies. Readings and papers.

Prerequisite: permission of department.

Contact department for information to register for this course.

JWST619I **Directed Readings in Jewish Studies; Critical Issues in Israeli Cinema**

Credits: 3 Grading Method: Regular

Independent Study in Jewish Studies. Readings and papers.

Also offered as JWST429J, RELS419F, ISRL449K and HEBR430. Credit will be granted for JWST429J, JWST619I, RELS419F, ISRL449K or HEBR430. Critical investigation of Zionist and Israeli culture and politics through film.

0101	Eric Zakim TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1103

JWST648 **Readings in Jewish History**

(Perm req)

Credits: 3 Grading Method: Regular

Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Contact department for information to register for this course.

JWST658 **Readings in Jewish Thought and Culture**

(Perm req)

Credits: 3 Grading Method: Regular

Examines key issues in the development of Jewish thought and culture.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines key issues in the development of Jewish thought and culture.

Contact department for information to register for this course.

JWST678 **Readings in Jewish Literature**

(Perm req)

Credits: 3 Grading Method: Regular

Examines selected themes or literatures in the development of Jewish literary traditions.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines selected themes on literatures in the development of Jewish literary traditions.

Contact department for information to register for this course.

JWST699 **Independent Graduate Readings in Jewish Studies**

Credits: 1-3 Grading Method: Regular

Independent readings or guided research in a field of Jewish Studies with a member of the Jewish Studies graduate faculty.

0108	Eric Zakim	Seats (Total: 5)
	Contact instructor or department for details.	

JWST799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Research and Writing the Masters Thesis in Jewish Studies.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES Kinesiology Fall 2015

KNES100N **Physical Education Activities: Coed; Basketball (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

0001	Calvin Lu **Meets August 31, 2015 - October 16, 2015** TuTh 8:00am - 10:00am *Meets first 7 weeks.*	Seats (Total: 25) ERC 0135	Lab
0002	Calvin Lu **Meets October 19, 2015 - December 11, 2015** TuTh 8:00am - 10:00am *Meets second 7 weeks.*	Seats (Total: 25) ERC 0135	Lab

KNES100O **Physical Education Activities: Coed; Basketball (Intermediate)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Michele Fox MW 12:00pm - 2:00pm *This section is for KNES Majors only.*	Seats (Total: 25) ERC 0135	Lab
0003	Drew Jordre MW 10:00am - 12:00pm *This section is for KNES Majors only.*	Seats (Total: 25) ERC 0135	Lab
0004	Calvin Lu TuTh 12:00pm - 2:00pm *This section is for KNES Majors only.*	Seats (Total: 25) ERC 0135	Lab

KNES131O **Physical Education Activities: Coed; Jogging (Intermediate)**

Credits: 2

Grading Method: Regular, Pass-Fail

Students must pay a $40 instructional materials fee. Attendance is required of all students beginning the first day of class.

0001	Andrew Ginsberg	Seats (Total: 32)	
	TuTh 2:00pm - 4:00pm	COL 1100D	Lab
	This section is for KNES Majors only.		

KNES131V **Physical Education Activities: Coed; Jogging (BEGINNING)**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Andrea Romeo	Seats (Total: 32)	
	MW 2:00pm - 4:00pm	COL 1100D	Lab
0002	Michele Fox	Seats (Total: 32)	
	TuTh 12:00pm - 2:00pm	COL 1100D	Lab

KNES134O **Physical Education Activities: Coed; Bowling (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Students must pay a $40 instructional materials fee. Bowling shoes are required (can be rented). Schedule adjustment is the first week of classes only.

0001	Kevin Alexander	Seats (Total: 32)	
	Meets August 31, 2015 - October 16, 2015		
	TuTh 8:00am - 10:00am	SSU B0106C	Lab
	This section is for KNES Majors only.		
0002	Kevin Alexander	Seats (Total: 32)	
	Meets October 19, 2015 - December 11, 2015		
	TuTh 8:00am - 10:00am	SSU B0106C	Lab
	This section is for KNES Majors only.		

KNES137N **Physical Education Activities: Coed; Golf (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40 instructional materials fee directly to the golf course.

0001	Jeff Maynor	Seats (Total: 20)	
	Meets August 31, 2015 - October 16, 2015		
	MW 10:00am - 12:00pm	GLF 1102	Lab
	This section is for KNES Majors Only.		

KNES137O **Physical Education Activities: Coed; Golf (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40.00 instructional materials fee directly to golf course.

0001	Jeff Maynor	Seats (Total: 20)	
	Meets August 31, 2015 - October 16, 2015		
	MW 12:00pm - 2:00pm	GLF 1102	Lab

KNES140A **Physical Education Activities: Coed; General Gymnastics (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment is the first week of classes only. Attendance is required the first day of class. Meets the second seven weeks only. Students must pay a $40 instructional materials fee.

0001	Joshua Montfort	Seats (Total: 19)	
	Meets October 19, 2015 - December 11, 2015		
	MW 10:00am - 12:00pm	SPH 1120	Lab
	This section is for KNES Majors Only.		

KNES140V **Physical Education Activities: Coed; Tumbling and Balancing (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule adjustment is the first week of classes only. Attendance is required beginning the first day of class. Meets the first seven weeks only. Students must pay a $40 instructional materials fee.

0001	Joshua Montfort **Meets August 31, 2015 - October 16, 2015** MW 10:00am - 12:00pm	Seats (Total: 19) SPH 1120	 Lab

KNES144Q **Physical Education Activities: Coed; Martial Arts, Karate (Beginning)**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 10:00am - 12:00pm *This section is for KNES Majors Only.*	Seats (Total: 25) SPH 0107	 Lab

KNES144R **Physical Education Activities: Coed; Intermediate Karate**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 12:00pm - 2:00pm	Seats (Total: 25) SPH 0107	 Lab

KNES144T **Physical Education Activities: Coed; Self-Defense (Beginning)**

Credits: 2

Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Kenneth Klotz MW 8:00am - 10:00am	Seats (Total: 28) SPH 0107	 Lab

KNES152N **Physical Education Activities: Coed; Soccer (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of classes only. Students are required to attend classes beginning first day of classes. Students must pay a $40 instructional materials fee.

0001	Calvin Lu	Seats (Total: 21)	
	Meets August 31, 2015 - October 16, 2015		
	MW 12:00pm - 2:00pm	COL 1100D	Lab
	This section is for KNES Majors Only.		

KNES152O **Physical Education Activities: Coed; Soccer (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendence is required beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

0001	Calvin Lu	Seats (Total: 19)	
	Meets October 19, 2015 - December 11, 2015		
	MW 12:00pm - 2:00pm	COL 1100D	Lab
	This section is for KNES Majors only.		

KNES154N **Physical Education Activities: Coed; Swimming (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Beginning Swimming is strictly for Non-swimmers. Attendence is required on the first day of class. Students must pay a $40 instructional materials fee.

0001	Timothy Hamlet	Seats (Total: 17)	
	MW 12:00pm - 1:15pm	ERC B0120	Lab

KNES154O **Physical Education Activities: Coed; Swimming (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Carrie Tupper, Natalie Taylor	Seats (Total: 17)	
	TuTh 1:00pm - 2:15pm	ERC B0120	Lab
	This section is for KNES Majors only.		

KNES154P **Physical Education Activities: Coed; Swimming (Advanced)**

Credits: 2 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Carrie Tupper	Seats (Total: 17)	
	MW 9:00am - 11:00am	ERC B0120	Lab

KNES154W **Physical Education Activities: Coed; Swimming/Lifeguard Training**

Credits: 2 Grading Method: Regular, Pass-Fail

Prerequisite: Advanced swimming ability. Attendance on the first day of class is required of all students. Students must qualify to stay in class by passing a swim test on the first day of class. Students must pay a $40 instructional materials fee.

0001	Matthew Quigley	Seats (Total: 17)	
	MW 10:00am - 12:00pm	ERC B0120	Lab

KNES155N **Physical Education Activities: Coed; Tennis (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students on the first day of class. Students must pay a $40 instructional materials fee.

0001	Ashley Delaney, Jo Zimmerman	Seats (Total: 25)	
	Meets August 31, 2015 - October 16, 2015		
	MW 10:00am - 12:00pm	COL 1100D	Lab
	This section is for KNES Majors Only.		

0002	Jo Zimmerman, Ashley Delaney **Meets August 31, 2015 - October 16, 2015** MW 12:00pm - 2:00pm *This section is for KNES Majors Only.*	Seats (Total: 25) COL 1100D	Lab
0003	Jo Zimmerman, Ashley Delaney **Meets August 31, 2015 - October 16, 2015** MW 2:00pm - 4:00pm	Seats (Total: 25) COL 1100D	Lab

KNES155O **Physical Education Activities: Coed; Tennis (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of class only. All students are required to attend the first day of class. Students must pay a $40 instructional materials fee.

0004	John Borden, Jo Zimmerman **Meets August 31, 2015 - October 16, 2015** TuTh 10:00am - 12:00pm *This section is for KNES Majors only.*	Seats (Total: 28) COL 1100D	Lab

KNES157N **Physical Education Activities: Coed; Weight Training (Beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

0001	Vipul Kumar MW 10:00am - 11:15am	Seats (Total: 22) SPH 0103	Lab
0002	Laura Rush MW 1:00pm - 2:15pm	Seats (Total: 22) SPH 0103	Lab
0003	Laura Rush MW 2:00pm - 3:15pm	Seats (Total: 22) SPH 0103	Lab

0004	Andrea Romeo TuTh 9:30am - 10:45am	Seats (Total: 22) SPH 0103	Lab
FC01	Vipul Kumar MW 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 28) SPH 0103	Lab

KNES157O **Physical Education Activities: Coed; Weight Training (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required of all students. Students must pay a $40 instructional materials fee.

0001	Vipul Kumar MW 11:00am - 12:15pm *This section is for KNES Majors only.*	Seats (Total: 22) SPH 0103	Lab
0002	Laura Rush MW 12:00pm - 1:15pm *This section is for KNES Majors only.*	Seats (Total: 22) SPH 0103	Lab
0003	Dapeng Chen, Jo Zimmerman TuTh 12:00pm - 1:15pm *This sections is for KNES Majors only.*	Seats (Total: 22) SPH 0103	Lab

KNES157T **Physical Education Activities: Coed; Fight the 15: Introduction to fitness and an active lifestyle**

Credits: 1 Grading Method: Regular, Pass-Fail

For non-majors only. Students must pay a $40 instructional materials fee. Intended for students interested in learning basic aspects of exercise and fitness. Coverage of fitness fundamentals, training concepts and techniques, and facilities available on and off campus to aid in an active lifestyle.

FC01	Emily Sterner MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) SPH 2101	Lab

KNES160N **Physical Education Activities: Coed; Volleyball (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is first week of class only. Attendance is required of all students on the first day of class. Students must pay a $40 instructional materials fee.

0001	Calvin Lu	Seats (Total: 25)	
	Meets October 19, 2015 - December 11, 2015		
	MW 10:00am - 12:00pm	SPH 2101	Lab
	This section is for KNES Majors Only.		

KNES160O **Physical Education Activities: Coed; Volleyball (Intermediate)**

Credits: 1

Grading Method: Regular, Pass-Fail

Schedule Adjustment Period is the first week of class only. All students are required to attend the first day of class. Students must pay a $40 instructional materials fee.

0001	Andrea Romeo	Seats (Total: 25)	
	Meets October 19, 2015 - December 11, 2015		
	MW 12:00pm - 2:00pm	SPH 2101	Lab
	This section is for KNES Majors only.		
0002	Calvin Lu	Seats (Total: 25)	
	Meets October 19, 2015 - December 11, 2015		
	TuTh 2:00pm - 4:00pm	SPH 2101	Lab
	This section is for KNES Majors only.		

KNES161F **Physical Education Activities: Coed; Yoga for Fitness (Beginning)**

Credits: 1

Grading Method: Regular, Pass-Fail

Attendance on the first day of class is required. Students must pay a $40 instructional materials fee.

0001	Laura Rush	Seats (Total: 28)	
	TuTh 3:00pm - 4:15pm	SPH 0107	Lab
	This section is for KNES Majors only.		

KNES200U **Introduction to Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Kinesiology program; and freshman standing. Or must not be in Kinesiology program; and must have less than 60 credits. Credit only granted for: KNES200 or KNES289M.

An overview of kinesiology, the interdisciplinary study of physical activity. Examines human motor behavior and its cultural forms such as sport from the physiological, psychological, sociological, historical, philosophical, and biomechanical perspectives.

Contact department for information to register for this course.

KNES201 **Kinesiological Principles of Physical Activity**

Credits: 1 Grading Method: Regular, Pass-Fail

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

KNES Majors Only.

0101	Ana Palla-Kane M 11:00am - 11:50am	Seats (Total: 22) SPH 0308
0103	Jo Zimmerman W 3:00pm - 4:00pm	Seats (Total: 20) SPH 0307

KNES201U **Kinesiological Principles of Physical Activity**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

Contact department for information to register for this course.

KNES222 **Gambling in the New Millennium: Poker, The Preakness, Point-spreads, Powerball and Public Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Recommended: ENGL101 and COMM107.

Is gambling in the public interest? Students will critically examine the various implications of "what it means to gamble" through investigations of various gambling forms, different sectors of the gambling industry and the related economics, along with consumer behavior, sport, public policy and public health in this context.

0101	Stephen McDaniel MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) PLS 1140 CSS 2316	Discussion
0102	Stephen McDaniel MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) PLS 1140 CHE 2118	Discussion
0103	Stephen McDaniel MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) PLS 1140 CHM 2201	Discussion
0104	Stephen McDaniel MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) PLS 1140 ANS 0402	Discussion

KNES260 **Science of Physical Activity and Cardiovascular Health**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: LS | General Education: DSNS

Course details (1) the public health importance of and the processes underlying cardiovascular disease, (2) the risk factors for cardiovascular disease and the methods whereby they were identified, and (3) the principles of the scientific evidence supporting the use of physical activity to prevent cardiovascular disease.

0101	James Hagberg MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) CSS 2324 SPH 0223	Discussion
0103	James Hagberg MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) CSS 2324 SPH 0223	Discussion

KNES282 **Basic Care and Prevention of Athletic Injuries**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES282 or KNES381.

Theoretical and practical foundations of the prevention, treatment and rehabilitation of athletically related injuries. Topics include: physical conditioning, preventive taping, recognition of injuries, first aid and CPR.

KNES Majors only.

0101	Joanne Klossner TuTh 2:00pm - 3:15pm *This section is for KNES Majors Only.*	Seats (Total: 32) SPH 0308	

KNES287 **Sport and American Society**

Credits: 3 Grading Method: Regular, Pass-Fail CORE: SB, D General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	David Andrews MW 2:00pm - 2:50pm M 8:00am - 8:50am	Seats (Total: 17) SPH 1312 SPH 0303	Discussion
0102	David Andrews MW 2:00pm - 2:50pm M 9:00am - 9:50am	Seats (Total: 17) SPH 1312 SPH 0303	Discussion
0103	David Andrews MW 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 17) SPH 1312 SPH 0303	Discussion
0104	David Andrews MW 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 17) SPH 1312 SPH 0305	Discussion

0105	David Andrews MW 2:00pm - 2:50pm W 9:00am - 9:50am	Seats (Total: 17) SPH 1312 SPH 0303	Discussion
FC01	Shaun Edmonds MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) SPH 1303	

KNES287U **Sport and American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

Contact department for information to register for this course.

KNES289 **Topical Investigations**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES289L **Topical Investigations; Golf for Business and Life**

Credits: 3 | Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Students must pay a $50.00 Facility fee. This course gives students the oppurtunity to learn the basics of the golf swing, etiquette, and most importantly, how to use golf as a business tool regardless of their chosen careers. Kinesiology majors may use this course to fulfill 2 credits of physical activity at intermediate level.

0101	Jeff Maynor TuTh 3:30pm - 5:30pm	Seats (Total: 19) SPH 0303	

KNES289W **Topical Investigations; The Cybernetic Human**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Can the profound and rapid technological advances experienced in the 21st century change what it means to be human or the nature of humanity? Emergent technologies, new materials, increased computer power,engineering innovations, and groundbreaking work in the sciences of cognition and action provide myriad opportunities for repairing and enhancing the human body and brain. Examines the ethical, social, and technological implications of an increasing synergism of technology and the body in sports and the arts, at work or home, rehabilitating the body and the brain, and society at large.

0101	Ross Miller MF 2:00pm - 2:50pm W 12:00pm - 12:50pm	Seats (Total: 20) PHY 1412 SPH 0305	Discussion
0102	Ross Miller MF 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) PHY 1412 SPH 0303	Discussion
0103	Ross Miller MF 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) PHY 1412 SPH 0303	Discussion
0104	Ross Miller MF 2:00pm - 2:50pm W 2:00pm - 2:50pm	Seats (Total: 20) PHY 1412 SPH 0303	Discussion

KNES293 **History of Sport in America**

Credits: 3 | Grading Method: Regular, Pass-Fail | CORE: SH | General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0103	Michael Friedman MW 10:00am - 10:50am M 2:00pm - 2:50pm	Seats (Total: 17) SPH 1312 SPH 1302	Discussion

0104	Michael Friedman MW 10:00am - 10:50am M 3:00pm - 3:50pm	Seats (Total: 17) SPH 1312 SPH 0302	 Discussion
0105	Michael Friedman MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 17) SPH 1312 SPH 0303	 Discussion
FC01	Samuel Clevenger TuTh 4:30pm - 5:45pm	Seats (Total: 34) SPH 0305	

KNES293U **History of Sport in America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Contact department for information to register for this course.

KNES300 **Biomechanics of Human Motion**

Credits: 4 | Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

Students must pay a $50 lab fee.

0101	Jae Kun Shim MW 3:00pm - 4:15pm Tu 8:00am - 10:00am	Seats (Total: 14) SPH 1312 SPH 0223	 Lab
0102	Jae Kun Shim MW 3:00pm - 4:15pm Tu 10:00am - 12:00pm	Seats (Total: 14) SPH 1312 SPH 0223	 Lab

0103	Jae Kun Shim MW 3:00pm - 4:15pm Tu 12:00pm - 2:00pm	Seats (Total: 14) SPH 1312 SPH 0223	 Lab
0104	Jae Kun Shim MW 3:00pm - 4:15pm Tu 2:00pm - 4:00pm	Seats (Total: 14) SPH 1312 SPH 0223	 Lab
0105	Jae Kun Shim MW 3:00pm - 4:15pm Th 8:00am - 10:00am	Seats (Total: 14) SPH 1312 SPH 0223	 Lab
0106	Jae Kun Shim MW 3:00pm - 4:15pm Th 10:00am - 12:00pm	Seats (Total: 14) SPH 1312 SPH 0223	 Lab
0107	Jae Kun Shim MW 3:00pm - 4:15pm Th 12:00pm - 2:00pm	Seats (Total: 14) SPH 1312 SPH 0223	 Lab
0108	Jae Kun Shim MW 3:00pm - 4:15pm Th 2:00pm - 4:00pm	Seats (Total: 14) SPH 1312 SPH 0223	 Lab

KNES300H **Biomechanics of Human Motion**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $50 lab fee.

0101	Jae Kun Shim MW 3:00pm - 4:15pm Contact instructor or department for details.	Seats (Total: 4) SPH 1312

KNES332 **Exercise Testing and Prescription for the Fitness Professional**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman WF 9:00am - 11:00am	Seats (Total: 20) SPH 0308

KNES332H **Exercise Testing and Prescription for the Fitness Professional**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman MW 9:00am - 11:00am	Seats (Total: 2) SPH 0308

KNES333 **Motor Development and Fitness for Individuals with Disabilities**

Credits: 3 Grading Method: Regular

Restriction: Must be in a major within the SPHL-Kinesiology department.

Implications of Federal and State regulations for planning and implementing motor development and physical fitness programs for individuals with disabilities. Evaluation strategies for assessing motor performance and fitness levels in educational programs for these individuals.

Students are required to choose a placement for a service-learning experience involving direct work with children who have disabilities. Students may choose from a list of local schools (listed in the syllabus. that have special education programs; or they may complete this requirement at the Children's Developmental Clinic held on campus in the SPH (School of Public Health) building every Saturday 8:30am-12:30pm.

0101	Dennis Vacante Th 7:00pm - 9:30pm	Seats (Total: 25) SPH 0308

KNES334 **Adapted Physical Activity: Empowering People with Disabilities to Lead a Healthy and Active Lifestyle.**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP, DVUP

Credit only granted for: KNES498L or KNES334. Formerly: KNES498L.

Study of the field of adapted physical activity and its impact on the health and wellness of individuals with disabilities. Students will design an adapted physical activity program proposal and develop the skills needed to empower people with disabilities to participate in physical activity and sports programs and to lead active lifestyles.

0101	Ana Palla-Kane M 4:00pm - 5:30pm Class time/details on ELMs	Seats (Total: 24) SPH 0124 ONLINE
0102	Ana Palla-Kane W 4:00pm - 5:30pm Class time/details on ELMs	Seats (Total: 30) SPH 0124 ONLINE

KNES335 **Swimming Pool Management**

Credits: 2 | Grading Method: Regular, Pass-Fail

Analysis of the position of the swimming pool manager. The systematic treatment of swimming pool water; swimming pool first aid; and laws pertaining to swimming pool operation. Qualifies the student for a pool operator's license in most Maryland counties.

0101	Christopher Whipple TuTh 9:30am - 10:30am	Seats (Total: 28) ERC B0132

KNES350 **The Psychology of Sports**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

0101	Elizabeth Brown TuTh 2:00pm - 3:15pm *This section is for KNES Majors Only.*	Seats (Total: 48) SPH 1301
0201	Evan Brody TuTh 8:00am - 9:15am	Seats (Total: 48) SPH 1301

KNES350H **The Psychology of Sports**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Elizabeth Brown TuTh 2:00pm - 3:15pm	Seats (Total: 3) SPH 1301
0201	Evan Brody TuTh 8:00am - 9:15am	Seats (Total: 3) SPH 1301

KNES355 **Sport Management**

Credits: 3 | Grading Method: Regular, Pass-Fail

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

0101	Stephen McDaniel TuTh 2:00pm - 3:15pm	Seats (Total: 25) SPH 0307

KNES355H **Sport Management**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES355 or KNES498M.

Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Stephen McDaniel TuTh 2:00pm - 3:15pm	Seats (Total: 3) SPH 0307	

KNES360 **Physiology of Exercise**

Credits: 4

Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

Students must pay a $50 lab fee.

0101	Marc Rogers MWF 12:00pm - 12:50pm Tu 8:00am - 10:00am	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0102	Marc Rogers MWF 12:00pm - 12:50pm Tu 10:00am - 12:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0103	Marc Rogers MWF 12:00pm - 12:50pm Tu 12:00pm - 2:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0104	Marc Rogers MWF 12:00pm - 12:50pm Tu 2:00pm - 4:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab

0105	Marc Rogers MWF 12:00pm - 12:50pm Th 8:00am - 10:00am	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0106	Marc Rogers MWF 12:00pm - 12:50pm Th 10:00am - 12:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0107	Marc Rogers MWF 12:00pm - 12:50pm Th 12:00pm - 2:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0108	Marc Rogers MWF 12:00pm - 12:50pm Th 2:00pm - 4:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0109	Marc Rogers MWF 12:00pm - 12:50pm W 2:00pm - 4:00pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
SG91	Rosemary Lindle, Andrew Venezia Class time/details on ELMs M 1:00pm - 1:50pm M 9:00am - 10:50am *Limited to PHSC program students at the Shady Grove campus.*	Seats (Total: 13) ONLINE Location: TBA BLD1 203	 Lab
SG92	Rosemary Lindle, Andrew Venezia Class time/details on ELMs M 1:00pm - 1:50pm M 11:00am - 12:50pm *Limited to PHSC program students at the Shady Grove campus.*	Seats (Total: 13) ONLINE Location: TBA BLD1 203	 Lab
SG93	Rosemary Lindle, Andrew Venezia Class time/details on ELMs Th 1:00pm - 1:50pm Th 9:00am - 10:50am *Limited to PHSC program students at the Shady Grove campus.*	Seats (Total: 13) ONLINE Location: TBA BLD1 203	 Lab

SG94	Rosemary Lindle, Andrew Venezia Class time/details on ELMs Th 1:00pm - 1:50pm Th 11:00am - 12:50pm	Seats (Total: 13) ONLINE Location: TBA BLD1 203	 Lab
	Limited to PHSC program students at the Shady Grove campus.		

KNES360H **Physiology of Exercise**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

This section is restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $50 lab fee.

0101	Marc Rogers MWF 12:00pm - 12:50pm Contact instructor or department for details.	Seats (Total: 4) SPH 1312

KNES370 **Motor Development**

Credits: 3 Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

BL01	Yue Du W 1:00pm - 1:50pm Class time/details on ELMs M 9:00am - 9:50am	Seats (Total: 14) SPH 1312 ONLINE SPH 0124	 Lab
BL02	Yue Du W 1:00pm - 1:50pm Class time/details on ELMs M 10:00am - 10:50am	Seats (Total: 14) SPH 1312 ONLINE SPH 0124	 Lab

BL03	Yue Du W 1:00pm - 1:50pm Class time/details on ELMs M 11:00am - 11:50am	Seats (Total: 14) SPH 1312 ONLINE SPH 0124	 Lab
BL04	Yue Du W 1:00pm - 1:50pm Class time/details on ELMs M 12:00pm - 12:50pm	Seats (Total: 14) SPH 1312 ONLINE SPH 0124	 Lab

KNES370H **Motor Development**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

BL01	Yue Du W 1:00pm - 1:50pm Class time/details on ELMs Contact instructor or department for details.	Seats (Total: 2) SPH 1312 ONLINE

KNES370U **Motor Development**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

Blended Learning courses combine face-to-face and online interactions.

Contact department for information to register for this course.

KNES385 **Motor Control and Learning**

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

0101	Rodolphe Gentili MW 11:00am - 11:50am F 8:00am - 8:50am	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0102	Rodolphe Gentili MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0103	Rodolphe Gentili MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0104	Rodolphe Gentili MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0105	Rodolphe Gentili MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0106	Rodolphe Gentili MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0108	Rodolphe Gentili MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0109	Rodolphe Gentili MW 11:00am - 11:50am M 2:00pm - 2:50pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab
0110	Rodolphe Gentili MW 11:00am - 11:50am M 3:00pm - 3:50pm	Seats (Total: 14) SPH 1312 SPH 0124	 Lab

KNES385H **Motor Control and Learning**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Rodolphe Gentili	Seats (Total: 8)
	MW 11:00am - 11:50am	SPH 1312
	Contact instructor or department for details.	

KNES386 **Experiential Learning**

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: Must have completed three KNES core classes. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Explore and analyze concepts and procedures related to a quality service-learning experience to include planning, implementing, and evaluating a service-learning project.

Click here for more course information.

0101	Marvin Scott	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	SPH 0303

KNES389 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department.

Contact department for information to register for this course.

KNES389E **Topical Investigations; Children's Development Clinic**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

A service/learning course designed for students, teachers and individuals interested in working with children who have special needs. Students will work one-on-one with an assigned child in the areas of motor development, reading, language, and social skills. Students will be required to complete fingerprinting and background checks (at no cost to the students).

0101	Dennis Vacante	Seats (Total: 24)
	Sa 8:30am - 12:30pm	SPH 0103

KNES389I **Topical Investigations; Sport Economics**

Credits: 3

Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: KNES287.

0101	Adam Beissel	Seats (Total: 25)
	MW 3:30pm - 4:45pm	KEY 0116
	Examines sport as a diverse cultural form through which physical activity is organized, regulated, and consumed within contemporary society. Evaluation of the complex interactions between sport culture and economic institutions and forces.	

KNES389K **Topical Investigations; Kinesiology Internship**

(Perm req)

Credits: 3

Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department.

Contact department for information to register for this course.

KNES400 **The Foundations of Public Health in Kinesiology**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287; and must have completed or be concurrently enrolled in KNES360. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette MW 11:00am - 11:50am W 12:00pm - 1:00pm	Seats (Total: 14) PHY 1410 CSS 2316	 Discussion
0102	Shannon Jette MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 14) PHY 1410 CSS 2316	 Discussion
0103	Shannon Jette MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 14) PHY 1410 CSS 2316	 Discussion
0104	Shannon Jette MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 14) PHY 1410 CSS 2316	 Discussion
0105	Shannon Jette MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 14) PHY 1410 CSS 2316	 Discussion
0106	Shannon Jette MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 14) PHY 1410 CSS 2316	 Discussion

KNES400H **The Foundations of Public Health in Kinesiology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287; and must have completed or be concurrently enrolled in KNES360. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette MW 11:00am - 11:50am Contact instructor or department for details.	Seats (Total: 5) PHY 1410

KNES402 **Biomechanics of Sport**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES300.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

0101	Ross Miller MWF 12:00pm - 12:50pm	Seats (Total: 25) SPH 0308

KNES402H **Biomechanics of Sport**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES300.

Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.

0101	Ross Miller MWF 12:00pm - 12:50pm	Seats (Total: 3) SPH 0308

KNES440 **Psychology of Athletic Performance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES498P, KNES689Z, or KNES440.

Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.

0101	Seppo Iso-Ahola M 4:00pm - 6:35pm	Seats (Total: 24) SPH 1302

KNES440H **Psychology of Athletic Performance**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES498P, KNES689Z, or KNES440.

Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Seppo Iso-Ahola M 4:00pm - 6:35pm	Seats (Total: 3) SPH 1302

KNES451 **Children and Sport: A Psychosocial Perspective**

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

0101	Elizabeth Brown TuTh 11:00am - 12:15pm	Seats (Total: 25) SPH 0305

KNES457 **Managing Youth Programs: Educational, Fitness and Sport**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES370 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES457 or KNES498Y.

An examination of the basic functions involved in managing physical education, fitness, and youth sports programs. Focus on leadership skills, organizational management, and techniques for applying learned skills in a variety of organizational settings that serve the nation's youth.

0101	Jay Goldstein MWF 11:00am - 11:50am	Seats (Total: 28) SPH 0302

KNES460 **Physiology of Aging and the Impact of Physical Activity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	SPH 0305

KNES460H **Physiology of Aging and the Impact of Physical Activity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers	Seats (Total: 2)
	TuTh 12:30pm - 1:45pm	SPH 0305

KNES461 **Exercise and Body Composition**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

0101	Ben Hurley	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SPH 0305

KNES461H **Exercise and Body Composition**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

This section is restricted to students who have been admitted in the Kinesiology Honors program.

0101	Ben Hurley	Seats (Total: 3)
	TuTh 9:30am - 10:45am	SPH 0305

KNES463 **Principles and Methods of Physical Activity Interventions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360 and KNES350. Credit only granted for: KNES463 or KNES498G.

Understanding of the planning, implementation, and evaluation of physical activity interventions. Intervention methods and practical strategies fo formulate well-conceived physical activity interventions across a variety of settings and participant populations.

0101	Jennie Phillips	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	SPH 1302

KNES463H **Principles and Methods of Physical Activity Interventions**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES360 and KNES350. Credit only granted for: KNES463 or KNES498G.

Understanding of the planning, implementation, and evaluation of physical activity interventions. Intervention methods and practical strategies fo formulate well-conceived physical activity interventions across a variety of settings and participant populations.

0101	Jennie Phillips	Seats (Total: 3)
	TuTh 2:00pm - 3:15pm	SPH 1302

KNES476 **Honors Thesis Proposal**

(Perm req)

Credits: 3 Grading Method: Regular

Corequisite: KNES478. Restriction: Must be a KNES Honors student; and senior standing. Credit only granted for: KNES476 or KNES498R.

Development of honors thesis proposal based on preliminary research and literature review. Presentation of formal proposal to the thesis committee and fellow honors students.

0101	J Carson Smith	Seats (Total: 10)
	F 10:00am - 10:50am Contact instructor or department for details.	SPH 0301

KNES478 **Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Guided discussion of research topics of current interest.

Continuing KNES Honors Students must enroll in KNES478 every semester they are in the program.

0101	J Carson Smith	Seats (Total: 20)
	F 11:00am - 11:50am	SPH 0301

KNES484 **Sporting Hollywood**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES293 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES484 and KNES498N.

Popular representations of sport within the film media related to wider social discourses on bodies and the politics of various categories of subjectivity (gender, sexual, racial, class and national).

0101	Michael Friedman	Seats (Total: 28)
	M 4:00pm - 6:30pm	SPH 0302

KNES485 **Sport and Globalization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DVUP

Prerequisite: KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES485 and KNES498T.

Examination of sport culture from a global perspective; focuses on theorizing the similarities and differences between various national sporting cultures.

0101	Adam Beissel	Seats (Total: 28)
	W 10:00am - 10:50am Contact instructor or department for details.	SPH 0307

KNES487 **Women, Sports and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES498E or KNES487.

A study of the historical barriers to women's participation in physical activity, efforts to dismantle those barriers, and the differentiation that exists in women's sport and physical culture today. Exploration of the historical and contemporary factors involving female athletes in U.S. culture.

0101	Kristi Tredway TuTh 2:00pm - 3:15pm	Seats (Total: 30) CHE 2118

KNES497 **Kinesiology Senior Seminar**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: A professional writing course with a minimum grade of C-; and all 7 KNES core courses and 2 KNES option courses. And STAT100; or students who have taken courses with comparable content may contact the department. And minimum grade of C- in KNES400; or must be concurrently enrolled in KNES400. Restriction: Senior standing or higher; and must be in Kinesiology program.

Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.

Click here for more information.

0101	Ben Hurley W 8:00am - 10:45am *Exercise Prescription for the Prevention and Treatment of Chronic Disease.*	Seats (Total: 12) ARC 1127
0102	Adam Beissel M 9:00am - 11:30am *Qualitative Research for Sport and Physical Culture.*	Seats (Total: 13) SPH 0301
0104	Eva Chin Tu 4:00pm - 6:30pm *Adaptations of Skeletal Muscle with Disease and Exercise Training.*	Seats (Total: 12) SPH 0223

0106	Joanne Klossner TuTh 12:30pm - 1:45pm *Hot Topics in Sports Medicine.*	Seats (Total: 12) SPH 0307
0111	Tim Kiemel W 4:00pm - 6:30pm *Normal and Impaired Sensorimotor Control: Standing Balance, Walking, and Other Activities of Daily Living.*	Seats (Total: 12) SPH 0223

KNES498 **Special Topics in Kinesiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES498C **Special Topics in Kinesiology; Exercise and Brain Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Examines the evidence for exercise to affect brain function and brain health in children, in adults, and in old age. Covers the adaptations toacute and chronic exercise within brain networks related to emotion, stress reactivity, memory, and executive function, and the effectiveness of physical activity and exercise as treatments for depression, anxiety disorders, and cognitive impairment.Prerequisite: KNES350.

0101	J Carson Smith TuTh 2:00pm - 3:15pm	Seats (Total: 24) SPH 0302

KNES498N **Special Topics in Kinesiology; Muscular Aspects of Exercise Physiology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

0101	Eva Chin M 3:00pm - 5:30pm	Seats (Total: 20) SPH 0223

KNES498T **Special Topics in Kinesiology; Principles and Applications of Exercise Rehabilitation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisites: BSCI202 and KNES300/KNES300H.

0101	Larry Plotkin TuTh 8:00am - 9:15am	Seats (Total: 28) SPH 0305

KNES498W **Special Topics in Kinesiology; Prosthetics for Limb Amputations**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisite: KNES300. Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.

0101	Douglas Collier Tu 1:00pm - 3:30pm	Seats (Total: 31) CSS 1113

KNES600 **Kinesiology in Public Health**

Credits: 3

Grading Method: Regular, Audit

A broad introduction to public health within the context of the discipline of kinesiology, focusing on furthering the understanding of the ways kinesiology contributes toward achieving the goals of public health.

0101	Shannon Jette Tu 4:00pm - 6:45pm	Seats (Total: 15) SPH 2334

KNES609 **Research Issues in Kinesiology**

(Perm req)

Credits: 1

Grading Method: Regular

Issues, methodologies, and critical analyses of current research in Kinesiology.

Contact department for information to register for this course.

KNES614 **Cultural Studies and Physical Culture**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: KNES614 or KNES689P. Formerly: KNES689P.

Discusses the political commitments, constituents, and complexities of cultural studies, and their relevance for furthering the understanding of physical culture and the project of physical cultural studies.

0101	David Andrews	Seats (Total: 15)
	M 4:00pm - 6:30pm	SPH 0301

KNES618 **Current Readings in Exercise and Applied Physiology**

Credits: 1 Grading Method: Regular, Audit

Student-led presentations of contemporary literature in the areas of genetics, exercise science, fitness and health. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	James Hagberg	Seats (Total: 12)
	F 1:00pm - 1:50pm	ONLINE

KNES660 **Psychology of Athletic Performances**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES350. Credit only granted for: KNES660 or KNES689Z. Formerly: KNES689Z.

Psychological factors, mechanisms, and processes in athletic performance. The basic approach is social psychological, according to which the focus is on individual performance in the interpersonal athletic context. Intrapersonal and interpersonal factors and their effects on athletic performance. Psychology of peak performance, choking, and errors of mental control. Analysis of the general principles and types of mental training.

0101	Seppo Iso-Ahola	Seats (Total: 24)
	M 4:00pm - 6:35pm	SPH 1302

KNES689 **Special Problems in Kinesiology**

(Perm req)

Credits: 1-6 Grading Method: Regular

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES689A **Special Problems in Kinesiology; Assessing Learning in Physical Education**

Credits: 3

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

A study of the principles and techniques of educational measurement used to evaluate student learning in the cognitive, psychomotor and affective domains within the context of teaching effectiveness. Students will develop research proposals for implementation during the second half of their teaching internship.

IH60	Dena Deglau W 9:00am - 12:00pm	Seats (Total: 15) SPH 0223

KNES689G **Special Problems in Kinesiology; Research Techniques in Neuromechanics**

Credits: 3

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	Jae Kun Shim W 4:00pm - 6:30pm	Seats (Total: 10) SPH 0307

KNES689T **Special Problems in Kinesiology; Teaching Internship**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Outreach Secondary MCERT- KNES. Departmental permission required. Students are required to pay a course fee; refer to program materials for details.

CE01	Dena Deglau Contact instructor or department for details.	Seats (Total: 15)

KNES689X **Special Problems in Kinesiology; Exercise and Brain Health**

Credits: 3

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	J Carson Smith	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES691 **Muscular Aspects of Exercise Physiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES360. Recommended: BSCI422.

Skeletal muscle structure and function including muscle development, excitation-contraction coupling, muscle fiber types and fatigue, muscle biochemistry, gene expression, muscle damage and regeneration. The effects of aging and exercise training on skeletal muscle.

0101	Eva Chin	Seats (Total: 4)
	M 3:00pm - 5:30pm	SPH 0223

KNES692 **Cardiovascular Aspects of Exercise Physiology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES360.

A comprehensive consideration of the various cardiovascular factors affecting human physical performance. Emphasis on the regulation of cardiovascular functions during physical activity. Energy liberation and transfer, circulation, respiration, temperature regulation, physiology of work at altitudes, aerobic endurance training, and exercise, health and aging.

0101	James Hagberg	Seats (Total: 15)
	W 4:00pm - 6:30pm	CSS 0201

KNES789 **Advanced Projects in Kinesiology**

Credits: 1-3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

Contact department for information to register for this course.

KNES799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

KNES898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

KNES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

KORA Korean Fall 2015

KORA101 **Elementary Korean I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score; and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must be a non-Heritage student with no background in Korean.

Introduction to the Korean language. Primary emphasis on oral skills, but Hangul, the Korean alphabet, will also be introduced.

0101	Younghi Ramsey TuTh 2:00pm - 3:15pm	Seats (Total: 15) JMZ 1224
0201	Hyojin Jeong TuTh 12:30pm - 1:45pm	Seats (Total: 15) JMZ 1103

KORA201 **Intermediate Korean I**

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: KORA102; or permission of instructor.

An intermediate-level course designed for non-Heritage students. It begins the second year of instruction in the University's two-track Korean Program.

0101	Younghi Ramsey TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 1224

KORA211 **Introductory Reading for Speakers of Korean I**

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score; and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed two or more years of schooling in Korea.

Designed to improve the language skills of students already conversant in Korean; instruction entirely in Korean; introduction in hangul; reading and writing of simple journal entries.

0101	Younghi Ramsey	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 3122

KORA311 **Korean for Heritage Speakers, Advanced-Low I**

Credits: 3 Grading Method: Regular

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score; and KORA212. Or permission of instructor. Restriction: Not open to students who have completed six or more years of schooling in Korea.

Begins the second year of Heritage-language instruction in the University's two-track Korean Program.

0101	Younghi Ramsey	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	JMZ 1224

KORA499 **Independent Study Korean**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

LARC Landscape Architecture Fall 2015

LARC141 **Design Fundamentals Studio**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LARC140. Recommended: Concurrently enrolled in LARC263. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program.

Fundamentals of basic design focusing on creative problem solving associated with landscape architecture.

0101	Kelly Cook MW 2:00pm - 3:15pm MW 3:30pm - 4:50pm	Seats (Total: 15) PLS 2152 PLS 2152	 Lab

LARC160 **Introduction to Landscape Architecture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences.

Restricted to students with less then 30 credits.

0101	Dennis Nola MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1113	 Discussion
0102	Dennis Nola MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1113	 Discussion
0103	Dennis Nola MW 12:00pm - 12:50pm M 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1184	 Discussion
0104	Dennis Nola MW 12:00pm - 12:50pm M 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1184	 Discussion
0105	Dennis Nola MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1113	 Discussion
0106	Dennis Nola MW 12:00pm - 12:50pm W 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1113	 Discussion
0107	Dennis Nola MW 12:00pm - 12:50pm M 4:00pm - 4:50pm	Seats (Total: 18) MMH 1400 PLS 1113	 Discussion

0108	Dennis Nola MW 12:00pm - 12:50pm M 5:00pm - 5:50pm	Seats (Total: 18) MMH 1400 PLS 1113	 Discussion
FC01	Colleen Vacelet MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) PLS 1130	

LARC265 **Site Analysis and Ecological Principles**

Credits: 3 Grading Method: Regular

Prerequisite: LARC141. Corequisite: LARC240 and LARC221. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program. Credit only granted for: LARC265 or ARCH460.

Principles and methods of site analysis with an emphasis on the application of ecological principles in landscape architecture, architecture and planning.

0101	Marita Roos TuTh 9:30am - 10:45am	Seats (Total: 20) PLS 1119	

LARC320 **Principles of Site Engineering**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC221. Corequisite: LARC340. Restriction: Must be in Landscape Architecture program; and junior standing or higher.

The study and application of landscape construction principles as applied to grading, drainage, site layout, storm water management, and vehicular and pedestrian circulation.

0101	Joseph Burkhardt Th 8:00am - 10:45am Tu 9:30am - 10:45am	Seats (Total: 20) PLS 2150 PLS 2150	 Lab

LARC340 **Site Planning and Design Studio**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC221; and LARC240; and LARC265. Corequisite: LARC320. Restriction: Must be in Landscape Architecture program; and junior standing or higher.

An examination of the influence of landscape character and site features (natural and cultural) on landscape architecture, architecture and planning through application in the studio setting.

0101	Dennis Nola	Seats (Total: 17)	
	MW 1:00pm - 1:50pm	PLS 2150	
	MW 2:00pm - 4:50pm	PLS 2150	Lab

LARC389 **Internship in Landscape Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

A supervised internship where students earn credit for work experience related to their career goals. Each student must keep a work log, work on a special project, and produce a report related to this project. An evaluation from the external supervisor of the project is required. Participation requires application to the internship advisor in the preceding semester.

0101	Steven Cohan	Seats (Total: 15)
	W 9:00am - 9:50am	PLS 1119
	Contact instructor or department for details.	

LARC420 **Professional Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LARC321. Restriction: Must be in Landscape Architecture program.

An introduction to and comparative study of the professional concerns o design firms. Focus on planning, legal, ethical, marketing and management considerations of interdisciplinary practices.

0101	Dennis Nola	Seats (Total: 30)	
	Tu 9:00am - 11:50am	PLS 0104	Lab

LARC440 **Urban Studio Design**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC321; and LARC340; and LARC341. Restriction: Must be in Landscape Architecture program.

The landscape architect's role within the interdisciplinary urban design process, focusing on urban site design issues. Pedestrian friendly site design and the future of sustainable development will be studied.

0101	Jack Sullivan	Seats (Total: 17)	
	MW 1:00pm - 1:50pm	PLS 2148	
	MW 2:00pm - 4:50pm	PLS 2148	Lab

LARC452 **Green Infrastructure and Community Greening**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100 or PLSC101; or permission of instructor. Restriction: Junior standing or higher. Credit only granted for: LARC489G or LARC452. Formerly: LARC489G.

A critical look and exploration of green infrastructure (GI) elements in the built environment in contributing to ecosystems services and the sustainability of the built environment. The course explores the science, issues, challenges, and the policy, planning and design solutions offered by green infrastructure.

0101	David Myers	Seats (Total: 10)	
	W 10:00am - 10:50am	PLS 1176	
	F 10:00am - 11:50am	PLS 1176	
0102	David Myers	Seats (Total: 10)	
	W 10:00am - 10:50am	PLS 1176	
	F 10:00am - 11:50am	PLS 1176	

LARC470 **Landscape Architecture Seminar**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LARC321; and LARC341. Corequisite: LARC440. Restriction: Senior standing; and must be in Landscape Architecture program.

A combination of self-directed study, seminar, and lecture formats. An introduction to aspects of research methods, critical analysis, and proposal writing with a focus on urban and community design.

0101	Kelly Cook	Seats (Total: 13)	
	M 9:00am - 11:50am	PLS 1162	

LARC489R **Special Topics in Landscape Architecture; Fundamental Graphics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Permission of AGNR-Plant Science & Landscape Architecture department; and must be in Landscape Architecture program. Exploration of fundamental graphics used in landscape architecture.

0101	Ann Anderson	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	PLS 2152	
	TuTh 12:30pm - 1:45pm	PLS 2152	Lab

LARC499 **Independent Studies in Landscape Architecture**

(Perm req)

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Independent studies in landscape architecture including field, studio o library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC620 **Graphic Tools for Landscape Representation**

Credits: 3 Grading Method: Regular, Audit

Corequisite: LARC640. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

This course integrates digital and analog methods of communication and provides an introduction to computer tools and techniques commonly used in landscape architecture practice. Non-drafting computer tools will be used to orient basic digital image capture, manipulation, and presentation formatting. Also includes techniques and application of various media for graphic communication associated with landscape architecture.

0101	Jack Sullivan	Seats (Total: 10)	
	TuTh 9:30am - 10:45am	PLS 1142	
	TuTh 11:00am - 12:15pm	PLS 1142	Lab

LARC640 **Graduate Studio I**

Credits: 5 Grading Method: Regular, Audit

Corequisite: LARC620. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Principles and techniques of design as applied to shaping the landscape developing concepts in visual thinking, environmental awareness, and design intervention through studio exercises and projects.

0101	Byoung-Suk Kweon	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 1142	
	TuTh 2:00pm - 4:50pm	PLS 1142	Lab

LARC642 **Graduate Studio III**

Credits: 5 Grading Method: Regular, Audit

Prerequisite: LARC641. Corequisite: LARC670. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

A focus on the interaction of landscape science (hydrology, geology, etc.) with the necessities and mechanisms of human settlements (transportation, economics, etc.) emphasizing innovative and forward thinking solutions to urbanization and ecological problems. It will apply this knowledge to landscape analysis, recreational planning and design, and community development, emphasizing resource management, spatial organization, landscape character, and the physical and social structure of community services. This course will be required for both Trach 1 and Track 2 students.

0101	Christopher Ellis	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2154	
	TuTh 2:00pm - 4:50pm	PLS 2154	Lab

LARC670 **Landscape Architecture Theory and Criticism**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Review and analysis of the body of literature concerning landscape architecture and relationships between humans and both natural and designed environments. Topics may include: rationalism, ethics, aesthetics, social and economic values, postmodernism, feminist, multiculturalism, ecological determinism, preservation/conservation, and sustainability and ecological design. Each week students will lead a debate and discussion on a theoretical issue based on the assigned readings for that week.

0101	Kelly Cook	Seats (Total: 10)	
	M 9:00am - 11:50am	PLS 1162	

LARC699 **Independent Studies in Landscape and Architecture**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Individual Instruction course.

Contact department for information to register for this course.

LARC721 **Landscape Construction Methods and Materials**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LARC720. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Basic methods of constructing landscapes and manipulating the appropriate plant and inorganic materials for the creation of ecologically sustainable environments for human use. An examination of the use, properties, and detailing of materials used in landscape construction.

0101	Christie Ciabotti	Seats (Total: 10)	
	W 8:00am - 9:15am	PLS 2154	
	W 9:30am - 10:45am	PLS 2154	

LARC748 **Advanced Special Topics Studio**

Credits: 5 Grading Method: Regular, Audit

Advanced special topics comprehensive landscape architecture studio-exploration will focus on cultural, behavioral and ecological issues in the physical planning and design of urban landscapes.

0101	Victoria Chanse	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2156	
	TuTh 2:00pm - 4:50pm	PLS 2156	Lab

LARC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LASC Certificate in Latin American Studies — Fall 2015

LASC234 **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: SPAN234, PORT234. Credit only granted for: LASC234, SPAN234, or PORT234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Lucinda Grinnell MW 11:00am - 12:15pm	Seats (Total: 30) KEY 0125
0201	Reid Gustafson TuTh 11:00am - 12:15pm	Seats (Total: 35) WDS 0104

LASC234H **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: SPAN234, PORT234. Credit only granted for: LASC234, SPAN234, or PORT234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Lucinda Grinnell MW 11:00am - 12:15pm	Seats (Total: 5) KEY 0125

LASC248C **Special Topics in Latin American Studies; Cannibals, Savages and Carnivalization: the Making of Brazilian Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

0101	Thayse Lima TuTh 2:00pm - 3:15pm	Seats (Total: 30) JMZ 3120

LASC248E **Special Topics in Latin American Studies; An Interdisciplinary Approach to the Amazon Ecosystem**

Credits: 3 | Grading Method: Regular, Pass-Fail

Topics to be announced when offered.

Also offered as PORT228I. Credit will only be given for PORT228I or LASC248E. This course focuses on writings, videos and movies that procide a concept and a set of cultural values related to the Amazonian ecosystem encompassing several countries in South America. The course has three main components: 1. It draws insights on the ecology of South American rain forest, on the relationships and frictions between the natuarl environment and human inhabitants and/or predators, and on the dominant and subordinate cultures in the region; 2. It approaches students to viewpoints expressed by US and non-US scientific explorers, historians, traveles, researchers, adventureres, and fictionists, laborers, and Amerindians' (Indians) advocates; 3. It examines folktales, narratives and testimonials by Indigenous people and other inhabitants of the region. The course is devleoped through lectures, class discussions, readings, writing of journals and the viewing of documentaries, videos and motion pictures set in or about the Amazonian region.

0101	Regina Igel	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 2206

LASC250 **History of Colonial Latin America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Also offered as: HIST250. Credit only granted for: LASC250 or HIST250.

Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.

0101	David Sartorius	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0116

LASC348I **Special Topics in Latin American Studies; Race in Latin America**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

0101	Karin Rosemblatt	Seats (Total: 36)
	TuTh 12:30pm - 1:45pm	KEY 0103

LASC348R **Special Topics in Latin American Studies; Recovering Oral Histories**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

Prerequisite: Must have completed at least one course in English or Latin American Studies. Credit only granted for: ENGL261 or ENGL361 or LASC348R.

0101	Merle Collins	Seats (Total: 10)
	TuTh 9:30am - 10:45am	TWS 3250

LASC448A **Special Topics in Latin American Studies; Caribbean Literature by Women**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Prerequisite: two English courses in literature or permission of department. Repeatable to 9 credits if content differs. Also offered as ENGL448A and WMST448A. Credit will be granted for only one of the only following: ENGL448A, LASC448A or WMST448A.

0101	Merle Collins	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 1107

LASC448J **Special Topics in Latin American Studies; Aztec Culture: Human Sacrifice and Conquest**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as RELS419J. Credit will be granted for LASC448J or RELS 419J.

0101	James Maffie	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	EGR 2154

LASC448L **Special Topics in Latin American Studies; Conservation and Indigenous People in South America**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as ANTH468L. Credit granted for ANTH468L or LASC448L.

0101	Janet Chernela	Seats (Total: 30)
	M 2:00pm - 4:45pm	ASY 3215

LASC448Q **Special Topics in Latin American Studies; Amazon through Film**

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as ANTH468D.

0101	Janet Chernela	Seats (Total: 31)
	M 6:00pm - 8:45pm	WDS 0104

LASC458 **Senior Capstone Course in Latin American Studies**

Credits: 3 Grading Method: Regular

Capstone course for advanced students in the Latin American Studies Certificate Program or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

0101	Lucinda Grinnell	Seats (Total: 12)
	MW 9:30am - 10:45am	ARC 1121

LATN Latin Fall 2015

LATN120 **Intensive Latin**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-Classics department. Restriction: Must not have completed LATN102.

Elements of Latin grammar and vocabulary; elementary reading. The first year's study of Latin compressed into a single semester.

0101	Judith Hallett	Seats (Total: 20)
	MWF 10:00am - 10:50am	MMH 1218
	F 9:00am - 9:50am	MMH 1218

LATN201 **Intermediate Latin**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: Must have completed LATN102 at University of Maryland, College Park; or permission of ARHU-Classics department. Formerly: LATN203.

0101	Eric Adler	Seats (Total: 20)
	TuTh 2:00pm - 3:50pm	MMH 1218

LATN301 **Plautus**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Plautine drama. Literary, linguistic and socio-cultural aspects. Readings are in Latin.

0101	Judith Hallett	Seats (Total: 20)
	MW 3:30pm - 4:45pm	JMZ 1120

LATN488C **Latin Readings; Caesar**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

0101	Eric Adler	Seats (Total: 10)
	Tu 6:15pm - 8:45pm	WDS 1130

LATN488R **Latin Readings; Catullus and the Roman Elegiac Poets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

0101	Judith Hallett	Seats (Total: 5)
	M 5:00pm - 7:40pm	MMH 1218

LATN499 **Independent Study in Latin Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

LATN688C **Special Topics in Latin Literature; Caesar**

Credits: 3 Grading Method: Regular, Audit

0101	Eric Adler	Seats (Total: 15)
	Tu 6:15pm - 8:45pm	WDS 1130

LATN688R **Special Topics in Latin Literature; Catullus and the Roman Elegiac Poets**

Credits: 3 Grading Method: Regular, Audit

0101	Judith Hallett M 5:00pm - 7:40pm	Seats (Total: 10) MMH 1218

LATN699 **Independent Studies in Latin Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

LATN799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

LBSC Library Science Fall 2015

LBSC602 **Serving Information Needs**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

0101	Beth St Jean M 6:00pm - 8:45pm	Seats (Total: 30) HBK 0105
0201	Beth St Jean Tu 2:00pm - 4:45pm	Seats (Total: 30) HBK 0115
SG01	Ursula Gorham-Oscilowski Class time/details on ELMs	Seats (Total: 20) ONLINE

LBSC620 **Diverse Populations, Inclusion, and Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.

0101	Michelle Hamiel W 6:00pm - 8:45pm	Seats (Total: 30) HBK 0103
SG01	Mega Subramaniam Class time/details on ELMs	Seats (Total: 20) ONLINE

LBSC631 **Achieving Organizational Excellence**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

0101	Sharon Epps W 6:00pm - 8:45pm	Seats (Total: 30) PLS 1117
0201	Paul Wester Tu 6:00pm - 8:45pm	Seats (Total: 30) PLS 1117
SG01	Bruce Dearstyne Class time/details on ELMs	Seats (Total: 25) ONLINE

LBSC641 **Selecting and Evaluating of Resources for Learning**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Policies and procedures for collection development, including identifying, evaluating, acquiring, providing, and promoting resources in all formats, to support learning and teaching in elementary and secondary schools.

SG01	Sheri Massey	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LBSC642 **Integrating Technology into Learning and Teaching**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies. Credit only granted for: LBSC642 or LBSC708C. Formerly: LBSC708C.

Hardware, software, video and other equipment, and networking in schools. Pedagogic uses of information technology, including networked resources and multimedia.

SG01	June Ahn	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LBSC645 **Literature and Materials for Children**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Survey of literature and other materials for children and youth. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.

SG01	Edith Ching	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC671 **Creating Information Infrastructures**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Foundations of acquiring and managing collections, information structures, indexing and discovery systems needed by information professionals. An introduction to the theoretical concepts, trends, systems, and technologies central to the information field.

0201	Nathan Putnam	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HBK 2119

SG01	Erik Mitchell	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

LBSC682 **Management of Electronic Records & Information**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Role of archivists and records managers in the management of electronic records. Focuses on the life cycle of records and the impact of technology programs for managing electronic records.

0101	Robert Spangler	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 0115

LBSC703 **Field Study in Archives, Records and Information Management**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC605, LBSC650, LBSC670, and LBSC690; and must have completed 12 additional credits. Restriction: Permission of INFO-College of Information Studies.

Supervised experience in archival, records, or information management programs in organization and institutions. Application of theories, methods, and approaches to effectively carry out work and meet program goals.

0101	Kenneth Heger	Seats (Total: 25)
	Th 6:00pm - 8:45pm	HBK 4115

LBSC706 **Seminar in International and Comparative Librarianship and Information Science**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Comparison and contrast of bibliographic systems, institutions, service arrangements, and professional patterns in developed and developing cultures. Libraries, information organizations, and international information systems viewed against the backdrop of national cultures. Influences of social, political, and economic factors upon these forms.

0101	Wendy Simmons	Seats (Total: 20)
	Tu 2:00pm - 4:45pm	HBK 4115

LBSC707 **Field Study in Library Service**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: LBSC601, LBSC650, LBSC670, and LBSC690; and must have completed 12 additional credits. Restriction: Permission of INFO-College of Information Studies.

Supervised experience within library operations and/or the opportunity to perform a study to solve a specific problem in a suitable library or other information agency.

SG01	Rocco Debonis	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC709 **Independent Study**

Credits: 1-3

Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Signed independent study form must be presented to CLIS Admissions Office.

Contact department for information to register for this course.

LBSC713 **Planning and Evaluating Library Services**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

analysis of quantitative and qualitative methods for planning and evaluating library and information services. Demonstration and use of selecte d methods, including project planning and monitoring methods.

SG01	Ursula Gorham-Oscilowski	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LBSC731 **Special Collections**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: LBSC605 or LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Management of special collections, whose holdings may include manuscripts (particularly personal papers), non-textual materials, graphical materials, and rare books, with analysis of the custodial and management functions associated with special collections.

0101	Ethan Henderson, John Buchtel M 6:00pm - 8:45pm	Seats (Total: 30) HBK 0103

LBSC734 **Seminar in the Academic Library**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Role of the academic library within the framework of higher education. Planning programs and services, collections, support, fiscal management, physical plant, and cooperation.

0101	Gary White W 6:00pm - 8:45pm	Seats (Total: 30) HBK 0105

LBSC742 **Collaborative Instructional Design and Evaluation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC640; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

School librarians' collaborative role in instruction. Systematic design development, and evaluation of instructional strategies and products for learning.

SG01	Mega Subramaniam Class time/details on ELMs	Seats (Total: 20) ONLINE

LBSC782 **Arrangement, Description, and Access for Archives**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC605; or INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Formerly: LBSC684 and LBSC781.

Introduction to the key concepts and practices involved with arrangement and description of archives, and the techniques appropriate to enable users to access archival information.

0101	Kenneth Heger	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 0103

LBSC784 **Digital Preservation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC605 or INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC708Q or LBSC784. Formerly: LBSC708Q.

Issues and practices regarding digitization of analog materials and preservation of digital materials, both digitized and born digital.

0101	Jesse Johnston	Seats (Total: 30)
	Th 6:00pm - 8:45pm	PLS 1111

LBSC791 **Designing Principled Inquiry**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC671, LBSC602, and LBSC631; and additional 15 credits in LBSC course work. Restriction: Permission of INFO-College of Information Studies.

Critical analysis of roles of information professions and institutions in integrating theory, methods, practice, policies, and values of the field, and applying them to the design of future information systems and services.

0101	Paul Jaeger	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 1112

LBSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LGBT Lesbian Gay Bisexual Transgender Studies Fall 2015

LGBT200 **Introduction to Lesbian, Gay, Bisexual, and Transgender Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

Credit only granted for: LGBT200.

An interdisciplinary study of the historical and social contexts of personal, cultural and political aspects of LGBT life. Sources from a variety of fields, such as anthropology, history, psychology, sociology, and women's studies, focusing on writings by and about LGBT people.

0101	Roberto Manuel Benedicto TuTh 9:30am - 10:45am	Seats (Total: 45) SQH 1121
0201	Roberto Manuel Benedicto TuTh 2:00pm - 3:15pm	Seats (Total: 45) CCC 1111

LGBT265 **Lesbian, Gay, Bisexual, and Transgender Literatures**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Restriction: Must not have completed ENGL265. Also offered as: ENGL265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	John Macintosh TuTh 12:30pm - 1:45pm	Seats (Total: 30) LEF 1201
0201	Nathaniel Underland TuTh 2:00pm - 3:15pm	Seats (Total: 30) TWS 1107

LGBT350 **Lesbian, Gay, Bisexual, and Transgender People and Communication**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, DVCC

Prerequisite: LGBT200; and permission of LGBT Studies Program.

Study of differences, stereotypes, and values distinguishing LGBT people and of effective means of communicating such differences to non-LGBT people. Emphasis on contemporary LGBT life and on the development of didactic skills. Preparation and presentation of forums on LGBT people; facilitation of workshops in various outreach locations (residence halls, Greek system, classes).

0101	Luke Jensen	Seats (Total: 12)
	W 3:30pm - 5:10pm Contact instructor or department for details.	WDS 1131

LGBT386 **Lesbian, Gay, Bisexual, and Transgender Community Organization Internship**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, DVCC

Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.

Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.

Contact department for information to register for this course.

LGBT448E **Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Asian American Sexualities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

In-depth study of particular themes and issues in LGBT studies.

Also offered as AAST498E, AMST4185, or WMST498C. Credit will be granted for AAST498E, AMST418T, LGBT448E or WMST498C.

0101	Jeannette Soon-Ludes	Seats (Total: 30)
	MW 3:30pm - 4:45pm	KEY 0120

LGBT459B **Selected Topics in Sexuality and Literature; Dickinson, Whitman, and Contemporary American Poets**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Detailed study of sexuality as an aspect of literary and cultural expression.

Also offered as LGBT459B. Credit will be granted for ENGL439A or LGBT 459B.

0101	Martha Nell Smith	Seats (Total: 23)
	MW 2:00pm - 3:15pm	TWS 0236

LGBT499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Directed research and analysis in LGBT Studies on a topic selected by the student.

Contact department for information to register for this course.

LING Linguistics Fall 2015

LING200 **Introductory Linguistics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: HESP120 or LING200. Additional information: Does not count toward the Linguistics major and does not fulfill prerequisite requirements for all upper-level courses.

An exploration of the nature of human language, designed for non-majors Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Additional topics may include: semantics, pragmatics, social aspects of language, dialects, language change, acquisition, writing systems, typology, language universals, comparison with other communication systems, etc.

0101	Margaret Antonisse MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 30) MMH 1400 CHM 0122	Discussion
0102	Margaret Antonisse MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 30) MMH 1400 SKN 1115	Discussion
0103	Margaret Antonisse MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 30) MMH 1400 TYD 1118	Discussion
0106	Margaret Antonisse MW 1:00pm - 1:50pm Th 2:00pm - 2:50pm	Seats (Total: 30) MMH 1400 EGR 3106	Discussion

LING240 **Language and Mind**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Additional information: Required for Linguistics majors and recommended for students in related fields.

The study of language as a cognitive phenomenon. Focus on mastering the concepts and technical skills required for further courses in linguistics. Ways of representing people's knowledge of their native language, ways in which that knowledge is attained naturally by children, and how it is used in speaking and listening. Additional topics may include: animal communication, language and the brain, language and thought.

0101	Tonia Bleam	Seats (Total: 40)
	MWF 11:00am - 11:50am	LEF 2208

LING248 **Introduction to Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3 Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Learning to conduct research in laboratory linguistics as part of a research team that will create original research in the field.

0101	Jeffrey Lidz	Seats (Total: 15)
	Contact instructor or department for details.	

LING311 **Syntax I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING240.

Basic concepts, analytical techniques of generative syntax, relation to empirical limits imposed by viewing grammars as representations of a component of human mind. Aspects of current theories.

0101	Tonia Bleam	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	SQH 1111

LING320 **Phonetics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: Minimum grade of C- in LING200. Recommended: LING240. Additional information: This course counts as a core course for the linguistics major. Only one of Ling320 or HESP403 can be used to count towards the Linguistics major.

Representations and models of acoustic and articulatory phonetics. Develops concepts and skills for description, measurement and scientific analysis of the sound systems of human languages, including various varieties of English.

0101	Michael Key TuTh 12:30pm - 1:45pm	Seats (Total: 20) WDS 0104

LING321 **Phonology I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING240.

Properties of sound systems of human languages, basic concepts and analytical techniques of generative phonology. Empirical limits imposed by viewing grammars as cognitive representations. Physiological properties and phonological systems; articulatory phonetics and distinctive feature theory.

0101	Christopher Green TuTh 11:00am - 12:15pm	Seats (Total: 25) SQH 2120

LING330 **Historical Linguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING321. Recommended: LING311.

A traditional presentation of language change. Language types and families, sounds and writing systems, grammatical categories. Reconstruction of proto-languages by internal and comparative methods.

0101	Margaret Antonisse TuTh 11:00am - 12:15pm	Seats (Total: 25) JMZ 2117

LING350 **Philosophy of Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHIL170 or LING311. Also offered as: PHIL360. Credit only granted for: LING350 or PHIL360.

The nature and function of language and other forms of symbolism from a philosophical perspective.

0101	Alexander Williams TuTh 9:30am - 10:45am	Seats (Total: 30) SKN 1115

LING444 **Child Language Acquisition**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LING311.

Examines language acquisition in infancy and early childhood: the natur of children's linguistic representations and how these develop naturally. Role of (possible) innate linguistic structure and interaction of such structure with experience. Evaluation of methods and results of current and classic research leading to contemporary models of language development.

0101	Jeffrey Lidz	Seats (Total: 20)
	TuTh 9:30am - 10:45am	WDS 1127

LING448 **Advanced Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3

Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Conducting a research project in laboratory linguistics as part of a team creating original research relevant to current issues in linguistics.

0101	Jeffrey Lidz	Seats (Total: 15)
	Contact instructor or department for details.	

LING449E **Topics in Psycholinguistics; Biology of Language**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.

Cross-disciplinary examination of the definition of human language and the degree to which other animals can acquire language. Topics include studies of human language learning in animals, mirror neurons and theories of speech perception, and category learning. Insights from linguistics, psychology, neuroscience, and animal behanior.

0101	Christopher Heffner	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	MMH 1304

LING449M **Topics in Psycholinguistics; Cognitive Mechanisms in Language Comprehension**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.

Prerequisites: LING311 and LING321. Introduction to the cognitive mechanisms that interact with mental grammar in language comprehension in native monolingual, bilingual, & L2 speakers. Focus on sentence processing. Topics include cognitive control, memory retrieval, and predictive processes. Methodology for investigating these issues. Readings in classic & cutting-edge experimental findings.

0101	Ananda Schlueter	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	JMZ 0125

LING460 **Diversity and Unity in Human Languages**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Prerequisite: LING240 or LING200.

Fundamentals of grammatical typology as they relate to issues in social attitudes towards language. Linguistic structure of standard and non-standard languages and dialects. Relationship of different writing systems to linguistic structure. Issues in bilingualism and multilingualism.

0101	Corey Miller	Seats (Total: 15)
	MW 3:00pm - 4:15pm	JMZ 0120

LING499 **Directed Studies in Linguistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING499C **Directed Studies in Linguistics; Teaching Assistantship**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Designed for students that will be teaching assistants for LING200.

0101	Margaret Antonisse	Seats (Total: 4)
	Contact instructor or department for details.	

LING499H **Directed Studies in Linguistics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING610 **Syntactic Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING312.

Intensive introduction to transformational syntax.

0101	Howard Lasnik	Seats (Total: 15)	
	Tu 2:00pm - 4:30pm	MMH 1108B	
	Th 2:00pm - 3:30pm	MMH 1108B	Discussion

LING620 **Phonological Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING322.

Topics in current phonological theory, as they relate to data from various languages. Segmental and prosodic analysis. Autosegmental theory, metrical theory, etc.

0101	Naomi Feldman	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 1226

LING640 **Psycholinguistics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Core graduate course in psycholinguistics, covering leading theoretical approaches and experimental methods in language acquisition, language processing, and neurolinguistics.

0101	Colin Phillips	Seats (Total: 20)
	MW 12:00pm - 1:30pm	MMH 1108B

LING646 **Cognitive Neuroscience of Language**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Overview of classical and recent work on the neural basis of speech and language, with a goal of introducing contemporary methods and results to prepare the student to read the neurolinguistics and cognitive neuroscience literature. An emphasis will be placed on current techniques.

0101	Ellen Lau MW 10:30am - 11:45am	Seats (Total: 20) LEF 1221

LING660 **Introduction to Semantics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Basic concepts and methods of contemporary semantic theory including basic set theory, elementary propositional and predicate calculus, the structure of predicates and propositions, quantification binding. Prepares students for study of more advanced topics in semantics.

Also offered as PHIL688T. Credit granted for LING660 or PHIL688T.

0101	Paul Pietroski MW 9:00am - 10:15am	Seats (Total: 15) ARC 1125

LING689 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Independent studies in grammatical theory.

Contact department for information to register for this course.

LING698 **Directed Study; Seminar**

Credits: 1-3 Grading Method: Regular, Audit

0101	Howard Lasnik F 3:00pm - 5:00pm	Seats (Total: 10) WDS 1127

LING698T **Directed Study; Pedagogy for Linguistics**

Credits: 1 Grading Method: Regular, Audit

Required for LING200 Teaching Assistants.

0101	Margaret Antonisse	Seats (Total: 6)
	Contact instructor or department for details.	

LING723 **Computational Linguistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor. Also offered as: CMSC723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Formerly: LING645.

Fundamental methods in natural language processing. Topics include: finite-state methods, context-free and extended context-free models of syntax; parsing and semantic interpretation; n-gram and Hidden Markov models, part-of-speech tagging; natural language applications such as machine translation, automatic summarization, and question answering.

0101	Marine Carpuat	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	CSI 2120

LING798 **Research Papers in Linguistics**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING819P **Seminar in Syntactic Theory; Major Syntactic Phenomena**

Credits: 3 Grading Method: Regular, Audit

Current topics in research on syntactic theory.

0101	Maria Polinsky	Seats (Total: 20)
	Tu 2:00pm - 5:00pm	JMZ 1124

LING848 **Seminar in Computational Linguistics**

Credits: 3 Grading Method: Regular, Audit

Current topics in research in computational linguistics.

0101	Philip Resnik	Seats (Total: 20)
	W 2:00pm - 4:30pm	MMH 1108B

LING869 **Seminar in Neurolinguistics; Understanding and Discourse**

Credits: 3 Grading Method: Regular, Audit

Current topics in research on neurolinguistics.

Broadly, our topic is the incremental process of understanding speakers and discourses, viewed from a psycho- and neurolinguistic perspective. We will specially interested in how the representation of prior discourse subserves the comprehension of incoming sentences - for example, in the resolution of anaphora and other sorts of semantic indeterminacy.

0101	Alexander Williams, Ellen Lau	Seats (Total: 15)
	Th 2:00pm - 4:30pm	MMH 3416K

LING889 **Directed Research**

Credits: 1-8 Grading Method: Regular, Audit

Contact department for information to register for this course.

LING895 **Doctoral Research Paper**

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

LING896 **Research Paper in Minor Area**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LING895.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

Contact department for information to register for this course.

LING898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MATH Mathematics Fall 2015

MATH003 **Developmental Mathematics**

Credits: 3 Grading Method: Sat-Fail

A review of Intermediate High School Algebra intended for students preparing for one of the credit bearing Fundamental Studies Math Courses. It is taught in special computer labs using a self-paced computer program. The curriculum will be geared toward the student's level of algebra skills and eventual goals. There is a special fee for the course that may be applied in addition to the regular tuition charge. Students should refer to the schedule of classes for details on fees as they apply to a particular semester. The course does not carry any credit toward any degree at the University. The course is repeatable. Topics will be chosen from exponents, polynomials, linear equations, quadratic equations as well as polynomial, rational, exponential and logarithm functions and elementary probability or statistics, depending on the student.

There is a special fee for this class in addition to the regular tuition charge.

0102	Lee Ann Lewis MWF 8:00am - 9:50am	Seats (Total: 15) COL 0104
	Restricted to students in the STEP Program only. Contact Kaye Guidugli at (301) 314-8418 for more information.	
0201	Eric Hamilton MWF 10:00am - 11:50am	Seats (Total: 35) CEN 0200
0202	Eric Hamilton MWF 10:00am - 11:50am	Seats (Total: 15) COL 0104
0302	Kelly Watson MWF 12:00pm - 1:50pm	Seats (Total: 15) COL 0104
	Restricted to students in the STEP Program only. Contact Kaye Guidugli at (301) 314-8418 for more information.	

0601	Colleen Terpos TuTh 8:00am - 10:45am	Seats (Total: 35) CEN 0200
0602	Colleen Terpos TuTh 8:00am - 10:45am	Seats (Total: 15) COL 0104
0701	Colleen Terpos TuTh 11:00am - 1:45pm	Seats (Total: 35) CEN 0200
0702	Colleen Terpos TuTh 11:00am - 1:45pm	Seats (Total: 15) COL 0104
FC01	Jack Baker MW 6:00pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 35) CEN 0200
FC02	Jack Baker MW 6:00pm - 8:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 20) COL 0104

MATH 010, MATH 011, MATH 013 and MATH 015 are preparation courses for MATH 110, MATH 111, MATH 113 and MATH 115 respectively, and meet only for the first 5 weeks of the semester. Special sections of MATH 110, MATH 111, MATH 113 and MATH 115 will begin at this point and the student will automatically be enrolled in the course, provided he/she passes the Placement Exam for that course at the end of the 5 week period. If the Placement Exam is not passed at this point, the student will be placed in MATH 003. There will be a fee for these courses, the same as for MATH003. For the students who move into MATH 003 from MATH 010, MATH 011, MATH 013 or MATH 015, no new fee will be charged.

MATH010 **Algebra for MATH 110**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH110. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH110, the same semester, which also meets 5 days per week. Continuation in MATH110 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include linear equations, linear inequalities, operations on polynomials, factoring, solutions of quadratic equations, as well as exponential and logarithm functions. MATH010 does not carry any credit toward any degree at the University, nor is it graded. It leads to either MATH110 or MATH003, both of which are graded.

1101	Ben Bezejouh MTuWThF 9:00am - 9:50am	Seats (Total: 20) JMP 3202

1201	Ben Bezejouh MTuWThF 11:00am - 11:50am	Seats (Total: 20) JMP 3202

MATH011 **Algebra for MATH 111**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH111. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH111, the same semester, which also meets 5 days per week. Continuation in MATH 111 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential and logarithm functions, Venn diagrams, permutations and combinations. MATH011 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH111 (or MATH113 or MATH110), or MATH003, all of which are graded.

1201	Marguerite Jarchow MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 22) CHM 0124 CHM 0115

MATH013 **Algebra for MATH 113**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH113. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH113, the same semester, which also meets 5 days per week. Continuation in MATH113 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential, logarithm functions, and trigonometry. MATH013 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH113 (or MATH110), or MATH003, all of which are graded.

1101	Santuria Orsetti MTuWThF 9:00am - 9:50am	Seats (Total: 20) MTH B0423
1201	Santuria Orsetti MTuWThF 11:00am - 11:50am	Seats (Total: 20) MTH B0423
1202	Debra Franklin MTuWThF 11:00am - 11:50am	Seats (Total: 20) MTH 0402

1401	Debra Franklin MTuWThF 1:00pm - 1:50pm	Seats (Total: 20) MTH 0402

MATH015 **Algebra for MATH 115**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH115. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH115, the same semester, which also meets 5 days per week. Continuation in MATH115 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations in one and two variables, quadratic equations, as well as polynomial, rational, exponential, logarithm functions and trigonometry. MATH015 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH115 (or MATH111 or MATH113 or MATH110), or MATH003, all of which are graded.

1101	Stephen Kcenich MTuWThF 9:00am - 9:50am	Seats (Total: 22) MTH 0402
1201	Marguerite Jarchow MTuWThF 11:00am - 11:50am	Seats (Total: 22) CHM 0128
1301	Ben Bezejouh MTuWThF 1:00pm - 1:50pm	Seats (Total: 22) JMP 3202

MATH110 **Elementary Mathematical Models**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSMA

Prerequisite: Must have math eligibility of MATH110 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences;; and must not have completed MATH220, MATH130, or MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140 or MATH130 or MATH220. Credit only granted for: MATH110, MATH112, or MATH113.

Topics include simple and compound interest; recursion for computing balances; installment loans and amortization; approximating data by linear models; analysis of applications to real-world collections of data; probability; conditional probability; independence; expected value; graphing and analysis of systems of inequalities; linear programming and applications.

All sections will require the use of a TI graphics calculator. Instructor will use a TI83 or TI83+ calculator.

0101	David Reynoso Valle MWF 11:00am - 11:50am	Seats (Total: 27) MTH 0403
0201	David Reynoso Valle MWF 12:00pm - 12:50pm *Seats held for AAP do not increase about 95%.*	Seats (Total: 27) MTH 0403
FC01	Julie Daberkow MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) MTH 0411

MATH111 **Introduction to Probability**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: FSMA

Prerequisite: Must have math eligibility of MATH111 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Or MATH110. Restriction: Not open to students majoring in mathematics, engineering or the physical sciences; and must not have completed STAT100; and must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH111 or STAT100.

Logic, Boolean algebra, counting, probability, random variables, expectation, applications of the normal probability distribution.

0101	Jesse Milzman MWF 1:00pm - 1:50pm	Seats (Total: 27) MTH 0307
0102	Charles Daly MWF 1:00pm - 1:50pm	Seats (Total: 27) MTH 0106
0103	William Schildknecht MWF 1:00pm - 1:50pm	Seats (Total: 27) MTH 0102
0201	Jesse Milzman MWF 2:00pm - 2:50pm	Seats (Total: 27) MTH 0307
0202	Charles Daly MWF 2:00pm - 2:50pm	Seats (Total: 29) MTH 0106

MATH113 **College Algebra and Trigonometry**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH220, MATH140, MATH112, MATH115, or MATH130; and must not have completed any course with a prerequisite of MATH140 or MATH130 or MATH220. Credit only granted for: Students who have credits for MATH113 may not also receive credits for MATH110, MATH112, or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

0101	Stefan Poikonen MWF 10:00am - 10:50am	Seats (Total: 27) MTH B0427
0102	Jian-Long Liu MWF 10:00am - 10:50am	Seats (Total: 27) MTH 0304
0103	Elif Kuz MWF 10:00am - 10:50am	Seats (Total: 27) MTH 0407
0104	Laura Iosip MWF 10:00am - 10:50am	Seats (Total: 22) MTH 0409
0201	Stefan Poikonen MWF 11:00am - 11:50am	Seats (Total: 27) MTH B0427
0202	Jian-Long Liu MWF 11:00am - 11:50am	Seats (Total: 27) MTH 0304
0203	Elif Kuz MWF 11:00am - 11:50am	Seats (Total: 27) MTH 0302
0204	Laura Iosip MWF 11:00am - 11:50am	Seats (Total: 30) MTH 0409
0205	Jacqueline Stone MWF 11:00am - 11:50am	Seats (Total: 27) MTH 0104
0301	Tao Zhang MWF 3:00pm - 3:50pm	Seats (Total: 27) MTH 0401

0302	Shujie Kang MWF 3:00pm - 3:50pm	Seats (Total: 25) MTH 0409
0303	Ryan Kirk MWF 3:00pm - 3:50pm	Seats (Total: 27) MTH 0307
0401	Tao Zhang MWF 4:00pm - 4:50pm	Seats (Total: 27) MTH 0401
0402	Shujie Kang MWF 4:00pm - 4:50pm	Seats (Total: 27) MTH 0409
0403	Ryan Kirk MWF 4:00pm - 4:50pm	Seats (Total: 27) MTH 0405
FC01	Terence Long TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0101
FC02	Jonathan Huang TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103
FC03	Terence Long TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0101
FC04	Jonathan Huang TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103

MATH115 **Precalculus**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSMA

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140. Credit only granted for: Students who have credits for MATH115 may not also receive credits for MATH112 or MATH113.

Preparation for MATH220, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 or a TI-83+ calculator.

0111	Frances Gulick MWF 9:00am - 9:50am MWF 10:00am - 10:50am	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0121	Frances Gulick MWF 9:00am - 9:50am MWF 11:00am - 11:50am	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0131	Frances Gulick MWF 9:00am - 9:50am MWF 12:00pm - 12:50pm	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0141	Frances Gulick MWF 9:00am - 9:50am MWF 1:00pm - 1:50pm	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0151	Frances Gulick MWF 9:00am - 9:50am TuTh 8:00am - 9:15am	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0161	Frances Gulick MWF 9:00am - 9:50am TuTh 9:30am - 10:45am	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0171	Frances Gulick MWF 9:00am - 9:50am TuTh 11:00am - 12:15pm	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0181	Frances Gulick MWF 9:00am - 9:50am TuTh 12:30pm - 1:45pm	Seats (Total: 25) ARM 0126 ARM 0110	 Lab
0191	Frances Gulick MWF 9:00am - 9:50am MWF 2:00pm - 2:50pm	Seats (Total: 25) ARM 0126 ARM 0110	 Discussion

0192	Frances Gulick MWF 9:00am - 9:50am MWF 3:00pm - 3:50pm	Seats (Total: 25) ARM 0126 ARM 0110	Discussion
FC01	Stephen Balady MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0303	
FC02	Christoforos Somarakis MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0305	
FC03	Stephen Balady MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0201	
FC04	Christoforos Somarakis MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0306	

MATH130 **Calculus I for the Life Sciences**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH112; or minimum grade of C- in MATH113; or minimum grade of C- in MATH115; or permission of CMNS undergraduate program office. Restriction: Must be in a major in CMNS-Biological Sciences UG Program; and not open to students majoring in mathematics, engineering or the physical sciences. Credit only granted for: MATH130, MATH220, or MATH140.

Basic ideas of differential integral calculus, with emphasis on elementary techniques and applications to the life sciences.

0111	Joel Cohen TuTh 9:30am - 10:45am WF 8:00am - 8:50am	Seats (Total: 25) ARM 0131 MTH 0105	Discussion
0121	Joel Cohen TuTh 9:30am - 10:45am WF 9:00am - 9:50am	Seats (Total: 25) ARM 0131 MTH 0105	Discussion

0131	Joel Cohen TuTh 9:30am - 10:45am WF 10:00am - 10:50am	Seats (Total: 27) ARM 0131 MTH 0105	Discussion
0141	Joel Cohen TuTh 9:30am - 10:45am WF 12:00pm - 12:50pm	Seats (Total: 27) ARM 0131 MTH 0105	Discussion
0211	Giovanni Forni TuTh 11:00am - 12:15pm MW 8:00am - 8:50am	Seats (Total: 27) ARM 0131 MTH 0306	Discussion
0221	Giovanni Forni TuTh 11:00am - 12:15pm MW 9:00am - 9:50am	Seats (Total: 27) ARM 0131 MTH 0306	Discussion
0231	Giovanni Forni TuTh 11:00am - 12:15pm MW 11:00am - 11:50am	Seats (Total: 27) ARM 0131 MTH 0306	Discussion
0241	Giovanni Forni TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 25) ARM 0131 MTH 0405	Discussion
0242	Giovanni Forni TuTh 11:00am - 12:15pm MW 12:00pm - 12:50pm	Seats (Total: 25) ARM 0131 MTH 0306	Discussion
0251	Giovanni Forni TuTh 11:00am - 12:15pm MW 1:00pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0405	Discussion

MATH131 **Calculus II for Life Sciences**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH130; or minimum grade of C- in MATH140. Restriction: Must be in a major in CMNS-Biological Sciences UG Program. Credit only granted for: MATH131, MATH141, or MATH221.

Continuation of MATH130, including an introduction to autonomous differential equations, probability (including conditional probability and the normal and binomial distributions), and statistical reasoning (including confidence intervals). Alongside the mathematical concepts will be applications in biology.

0111	McBlaine Boyle TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 22) ARM 0135 MTH 0106	Discussion
0112	McBlaine Boyle TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 22) ARM 0135 MTH 0103	Discussion
0121	McBlaine Boyle TuTh 9:30am - 10:45am MW 11:00am - 11:50am	Seats (Total: 22) ARM 0135 MTH 0106	Discussion
0122	McBlaine Boyle TuTh 9:30am - 10:45am MW 11:00am - 11:50am	Seats (Total: 22) ARM 0135 MTH 0103	Discussion
0131	McBlaine Boyle TuTh 9:30am - 10:45am MW 2:00pm - 2:50pm	Seats (Total: 22) ARM 0135 MTH 0306	Discussion
0132	McBlaine Boyle TuTh 9:30am - 10:45am MW 2:00pm - 2:50pm	Seats (Total: 22) ARM 0135 MTH 0103	Discussion
0141	McBlaine Boyle TuTh 9:30am - 10:45am MW 3:00pm - 3:50pm	Seats (Total: 22) ARM 0135 MTH 0106	Discussion
0142	McBlaine Boyle TuTh 9:30am - 10:45am MW 3:00pm - 3:50pm	Seats (Total: 22) ARM 0135 MTH 0405	Discussion

MATH140 **Calculus I**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH130, MATH220, or MATH140.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, or TI-86 calculator. Emphasis on student interaction in groups, including team approach to solving calculus based problems. There will be 3 one-hour lectures and 2 eighty-minute workshops each week with enhanced assistance and support for students.

0111	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 22) PHY 1412 MTH 0102	Discussion
0112	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 22) PHY 1412 MTH 0302	Discussion
0113	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 22) PHY 1412 MTH 1313	Discussion
0121	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 20) PHY 1412 MTH 0102	Discussion
0122	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 22) PHY 1412 MTH 0302	Discussion
0123	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 22) PHY 1412 MTH 1313	Discussion
0131	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) PHY 1412 MTH 0102	Discussion

0132	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) PHY 1412 LEF 1201	Discussion
0211	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0131 MTH 0411	Discussion
0212	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0131 MTH 0307	Discussion
0213	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0131 MTH 0403	Discussion
0221	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 22) ARM 0131 MTH 0411	Discussion
0222	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 22) ARM 0131 MTH 0307	Discussion
0223	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 12:30pm - 1:50pm	Seats (Total: 22) ARM 0131 MTH 0403	Discussion
0231	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 2:00pm - 3:20pm	Seats (Total: 22) ARM 0131 MTH 0411	Discussion
0232	Kasso Okoudjou MWF 10:00am - 10:50am TuTh 2:00pm - 3:20pm	Seats (Total: 22) ARM 0131 MTH 0307	Discussion
0311	Frances Gulick MWF 11:00am - 11:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0126 MTH 0201	Discussion

0312	Frances Gulick MWF 11:00am - 11:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0126 MTH 0106	Discussion
0313	Frances Gulick MWF 11:00am - 11:50am TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0126 MTH B0429	Discussion
0321	Frances Gulick MWF 11:00am - 11:50am TuTh 12:30pm - 1:50pm	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0322	Frances Gulick MWF 11:00am - 11:50am TuTh 12:30pm - 1:50pm	Seats (Total: 22) ARM 0126 MTH 0106	Discussion
0323	Frances Gulick MWF 11:00am - 11:50am TuTh 12:30pm - 1:50pm	Seats (Total: 22) ARM 0126 MTH B0429	Discussion
0331	Frances Gulick MWF 11:00am - 11:50am TuTh 2:00pm - 3:20pm	Seats (Total: 22) ARM 0126 MTH 0201	Discussion
0332	Frances Gulick MWF 11:00am - 11:50am TuTh 2:00pm - 3:20pm	Seats (Total: 22) ARM 0126 MTH 0106	Discussion
0411	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 9:30am - 10:50am	Seats (Total: 22) ARM 0135 MTH 0105	Discussion
0412	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 9:30am - 10:50am	Seats (Total: 22) ARM 0135 MTH B0425	Discussion
0413	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 9:30am - 10:50am	Seats (Total: 22) ARM 0135 MTH 0103	Discussion

0421	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0135 MTH 0105	Discussion
0422	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0135 MTH B0425	Discussion
0423	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0135 MTH 0103	Discussion
0431	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 22) ARM 0135 MTH B0429	Discussion
0432	Steven Chadwick MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 23) ARM 0135 MTH 0302	Discussion
0511	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 8:00am - 9:20am	Seats (Total: 22) ARM 0135 MTH 0411	Discussion
0512	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 8:00am - 9:20am	Seats (Total: 22) ARM 0135 MTH 0307	Discussion
0513	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 8:00am - 9:20am	Seats (Total: 23) ARM 0135 MTH B0429	Discussion
0521	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 9:30am - 10:50am	Seats (Total: 22) ARM 0135 MTH 0411	Discussion
0522	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 9:30am - 10:50am	Seats (Total: 22) ARM 0135 MTH 0307	Discussion

0523	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 9:30am - 10:50am	Seats (Total: 22) ARM 0135 MTH B0429	Discussion
0531	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 22) ARM 0135 MTH 0407	Discussion
0532	Bradford Sanders MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 23) ARM 0135 MTH 0302	Discussion
FC02	Benjamin Manning MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) CHM 1224 COL 3109	Discussion
FC03	Wujun Zhang MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0103 MTH 0103	Discussion
FC04	Terence Long MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) CHM 0127 COL 3110	Discussion
FC05	Arijit Sehanobish MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) CHM 0115 ANS 0412	Discussion
FC06	Yue Zhao MW 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 34) MTH 0306 MTH 0306	Discussion
FC07	Instructor: TBA	Seats (Total: 33)	

MATH140H Calculus I

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH130, MATH220, or MATH140.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

For general honors students only. Offered fall only. All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 TI-83+, or TI-86 calculator.

0101	Kelly Yancey MF 12:00pm - 12:50pm W 12:00pm - 1:50pm	Seats (Total: 22) MTH 0302 MTH 0302	
0201	Steven Chadwick WF 2:00pm - 2:50pm M 2:00pm - 3:50pm	Seats (Total: 22) MTH 0403 MTH 0403	

MATH141 **Calculus II**

Credits: 4	Grading Method: Regular, Pass-Fail, Audit	CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or minimum grade of B- in MATH130; and permission of CMNS-Mathematics department. Credit only granted for: MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, or TI-86 calculator.

0111	Wiseley Wong MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0131 MTH 0306	Discussion
0112	Wiseley Wong MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0131 MTH 0401	Discussion

0121	Wiseley Wong MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 MTH 0306	Discussion
0122	Wiseley Wong MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 MTH 0401	Discussion
0131	Wiseley Wong MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 26) ARM 0131 MTH 0306	Discussion
0132	Wiseley Wong MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0131 MTH 0405	Discussion
0141	Wiseley Wong MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0131 MTH 0306	Discussion
0142	Wiseley Wong MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0131 MTH 0405	Discussion
0211	Wojciech Czaja MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0126 MTH 0403	Discussion
0212	Wojciech Czaja MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0126 MTH 0405	Discussion
0221	Wojciech Czaja MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0126 MTH 0304	Discussion
0222	Wojciech Czaja MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0126 MTH 0305	Discussion

0231	Wojciech Czaja MWF 10:00am - 10:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0126 MTH B0423	Discussion
0241	Wojciech Czaja MWF 10:00am - 10:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0251	Wojciech Czaja MWF 10:00am - 10:50am TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 MTH B0423	Discussion
0261	Wojciech Czaja MWF 10:00am - 10:50am TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 MTH 1311	Discussion
0311	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0131 MTH 0405	Discussion
0312	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0131 MTH 0104	Discussion
0321	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0131 MTH 0405	Discussion
0322	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0131 MTH 0104	Discussion
0331	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0131 MTH 0405	Discussion
0332	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0131 MTH 0407	Discussion

0341	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 28) ARM 0131 MTH 0405	 Discussion
0342	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 28) ARM 0131 MTH 0407	 Discussion
FC01	Eric Hamilton MWTh 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 30) CHM 0122	
FC02	Bradford Sanders MWTh 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 30) MTH 0304	

MATH141H **Calculus II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or minimum grade of B- in MATH130; and permission of CMNS-Mathematics department. Credit only granted for: MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

For general honors students only. TI graphics calculator required. Instructor will use a TI-83, TI-83+, or TI-86 calculator.

0101	Kenneth Berg WF 11:00am - 11:50am M 11:00am - 12:50pm	Seats (Total: 29) MTH 0105 MTH 0105	
0201	Kenneth Berg MF 2:00pm - 2:50pm W 2:00pm - 3:50pm	Seats (Total: 29) MTH B0429 MTH B0429	

MATH206 **Introduction to Matlab**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH141, MATH131). Credit only granted for: CMSC206, CMSC298M, MATH206, or MATH299M.

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

0101	Justin Wyss-Gallifent **Meets August 31, 2015 - October 12, 2015** Class time/details on ELMs	Seats (Total: 425) ONLINE

MATH212 **Elements of Numbers and Operations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed one year of college preparatory algebra. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH212 or MATH210.

Reviews and extends topics of arithmetic and number theory related to the elementary school curriculum, particularly number systems and operations with natural numbers, integers, and rationals.

0101	Jenny Rustad MWF 8:00am - 8:50am	Seats (Total: 22) MTH 1308
0201	Jenny Rustad MWF 9:00am - 9:50am	Seats (Total: 22) MTH 1308
0301	Angela Stoltz MWF 10:00am - 10:50am	Seats (Total: 22) MTH 1308
0501	Carolina Napp-Avelli MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 1308

MATH213 **Elements of Geometry and Measurement**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH213.

Properties of geometric objects in two and three dimensions; parallel lines, curves and polygons; ratio, proportion, similarity; transformational geometry and measurement, constructions, justifications and proofs.

0101	David Pincus MWF 8:00am - 8:50am	Seats (Total: 22) MTH B0425
0201	David Pincus MWF 9:00am - 9:50am	Seats (Total: 22) MTH B0425

MATH214 **Elements of Probability and Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH214.

Permutations and combinations; probability; collecting and representing data; using statistics to analyze and interpret data.

0101	Sean Ballentine MWF 9:00am - 9:50am	Seats (Total: 22) MTH 0302
0201	Sean Ballentine MWF 10:00am - 10:50am	Seats (Total: 22) MTH 0302

MATH220 **Elementary Calculus I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: MATH112, MATH113, or MATH115. Or must have math eligibility of MATH220 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering or the physical sciences. Credit only granted for: MATH130, MATH220, or MATH140.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

0111	Nathaniael Manning MWF 9:00am - 9:50am Th 8:00am - 8:50am	Seats (Total: 20) PHY 1412 MTH 0201	 Discussion

0112	Nathaniael Manning MWF 9:00am - 9:50am Th 8:00am - 8:50am	Seats (Total: 25) PHY 1412 MTH B0427	Discussion
0121	Nathaniael Manning MWF 9:00am - 9:50am Th 9:30am - 10:20am	Seats (Total: 20) PHY 1412 MTH 0201	Discussion
0122	Nathaniael Manning MWF 9:00am - 9:50am Th 9:30am - 10:20am	Seats (Total: 25) PHY 1412 MTH B0427	Discussion
0131	Nathaniael Manning MWF 9:00am - 9:50am Th 11:00am - 11:50am	Seats (Total: 20) PHY 1412 MTH 0303	Discussion
0132	Nathaniael Manning MWF 9:00am - 9:50am Th 11:00am - 11:50am	Seats (Total: 22) PHY 1412 PLS 1158	Discussion
0141	Nathaniael Manning MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 20) PHY 1412 MTH 0303	Discussion
0142	Nathaniael Manning MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 22) PHY 1412 MTH B0427	Discussion
0211	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 25) KEY 0106 MTH 0303	Discussion
0212	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 26) KEY 0106 MTH 0401	Discussion
0221	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) KEY 0106 MTH 0303	Discussion

0222	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) KEY 0106 MTH B0427	Discussion
0231	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) KEY 0106 MTH 0401	Discussion
0232	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) KEY 0106 MTH 0304	Discussion
0241	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 3:00pm - 3:50pm	Seats (Total: 25) KEY 0106 MTH 0401	Discussion
0242	Timothy Pilachowski MWF 2:00pm - 2:50pm Tu 3:00pm - 3:50pm	Seats (Total: 25) KEY 0106 MTH 0304	Discussion
0311	Tamas Darvas TuTh 9:30am - 10:45am F 8:00am - 8:50am	Seats (Total: 25) ARM 0126 MTH 0405	Discussion
0321	Tamas Darvas TuTh 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 25) ARM 0126 MTH 0405	Discussion
0331	Tamas Darvas TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 25) ARM 0126 MTH 0405	Discussion
0332	Tamas Darvas TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 25) ARM 0126 MTH 0103	Discussion
0341	Tamas Darvas TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 25) ARM 0126 MTH 0405	Discussion

0342	Tamas Darvas TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 25) ARM 0126 MTH 0103	Discussion
0351	Tamas Darvas TuTh 9:30am - 10:45am F 2:00pm - 2:50pm	Seats (Total: 25) ARM 0126 MTH 0103	Discussion
0361	Tamas Darvas TuTh 9:30am - 10:45am F 3:00pm - 3:50pm	Seats (Total: 25) ARM 0126 MTH 0103	Discussion
0411	Gadi Fibich TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 25) ARM 0131 MTH 0401	Discussion
0421	Gadi Fibich TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0131 MTH 0401	Discussion
0431	Gadi Fibich TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 25) ARM 0131 MTH 0101	Discussion
0432	Gadi Fibich TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 25) ARM 0131 MTH 0103	Discussion
0441	Gadi Fibich TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0101	Discussion
0442	Gadi Fibich TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0103	Discussion
0451	Gadi Fibich TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 25) ARM 0131 MTH 0101	Discussion

0461	Gadi Fibich TuTh 2:00pm - 3:15pm M 3:00pm - 3:50pm	Seats (Total: 25) ARM 0131 MTH 0101	Discussion
FC01	Daniel Weinberg MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 35) MTH 0304	
FC02	Eric Hamilton MW 4:30pm - 5:45pm *Restricted to Students in Freshmen Connection.*	Seats (Total: 35) MTH 0303	
FC03	Daniel Weinberg MW 6:00pm - 7:15pm *Restricted to Students in Freshmen Connection.*	Seats (Total: 35) MTH 0304	

MATH221 **Elementary Calculus II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS

Prerequisite: MATH220, MATH130, or MATH140. Restriction: Not open to students majoring in mathematics, engineering or the physical sciences. Credit only granted for: MATH131, MATH141, or MATH221.

Differential and integral calculus, with emphasis on elementary techniques of integration and applications.

0101	Zhao Liu MWF 12:00pm - 12:50pm	Seats (Total: 22) MTH B0425
0201	Zhao Liu MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH B0425

MATH240 **Introduction to Linear Algebra**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH131; or MATH141. Credit only granted for: MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

0111	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0126 MTH 0306	Discussion
0112	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 27) ARM 0126 MTH B0421	Discussion
0121	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0126 MTH 0306	Discussion
0122	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0126 MTH B0421	Discussion
0123	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0126 MTH B0425	Discussion
0131	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0126 MTH 0306	Discussion
0132	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0126 MTH 0305	Discussion
0133	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0126 MTH 0101	Discussion
0141	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 27) ARM 0126 MTH 0101	Discussion

0142	Raluca Rosca MWF 1:00pm - 1:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 27) ARM 0126 MTH 0305	 Discussion

MATH241 **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

All sections will use MATLAB.

0111	Ioannis Markou MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0135 MTH B0421	 Discussion
0112	Ioannis Markou MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0135 MTH 0106	 Discussion
0121	Ioannis Markou MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH B0421	 Discussion
0122	Ioannis Markou MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0135 MTH 0106	 Discussion
0131	Ioannis Markou MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0135 MTH B0421	 Discussion
0132	Ioannis Markou MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0135 MTH 0106	 Discussion

0141	Ioannis Markou MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0135 MTH B0421	Discussion
0142	Ioannis Markou MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 26) ARM 0135 EDU 2102	Discussion
0211	Dionisios Margetis MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0131 MTH 0101	Discussion
0212	Dionisios Margetis MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 28) ARM 0131 MTH 0303	Discussion
0221	Dionisios Margetis MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 MTH 0101	Discussion
0222	Dionisios Margetis MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 MTH 0303	Discussion
0231	Dionisios Margetis MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0131 MTH 0101	Discussion
0232	Dionisios Margetis MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0131 MTH 0303	Discussion
0241	Dionisios Margetis MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0131 JMP 1109	Discussion
0242	Dionisios Margetis MWF 11:00am - 11:50am TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0131 PHY 0405	Discussion

0311	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0126 MTH 0304	Discussion
0312	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0126 MTH 0305	Discussion
0321	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0304	Discussion
0322	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0305	Discussion
0331	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0126 MTH 0304	Discussion
0332	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 26) ARM 0126 MTH 0305	Discussion
0341	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 MTH 0304	Discussion
0342	Justin Wyss-Gallifent MWF 12:00pm - 12:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0126 MTH 0305	Discussion
0411	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 8:00am - 8:50am	Seats (Total: 26) ARM 0131 MTH 0104	Discussion
0412	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 8:00am - 8:50am	Seats (Total: 22) ARM 0131 EGR 3102	Discussion

0421	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 CHE 2145	Discussion
0422	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 9:00am - 9:50am	Seats (Total: 28) ARM 0131 JMZ 3205	Discussion
0431	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 10:00am - 10:50am	Seats (Total: 26) ARM 0131 JMZ 2117	Discussion
0432	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 10:00am - 10:50am	Seats (Total: 28) ARM 0131 CHM 0115	Discussion
0441	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 0) ARM 0131 LEF 1171	Discussion
0442	Roohollah Ebrahimian MWF 1:00pm - 1:50pm TuTh 11:00am - 11:50am	Seats (Total: 25) ARM 0131 EGR 1102	Discussion
0501	Timothy Pilachowski MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 40) KEY 0102 KEY 0102	

MATH241H **Calculus III**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

For general honors students only. MATH241H will use MATLAB.

0101	Wiseley Wong MTuWF 2:00pm - 2:50pm	Seats (Total: 25) MTH B0425	

0201	Wujun Zhang MF 11:00am - 11:50am W 11:00am - 12:50pm	Seats (Total: 25) MTH 0411 MTH 0411	
0301	Huanchen Bao MF 11:00am - 11:50am W 11:00am - 12:50pm	Seats (Total: 25) CHM 1228 CHM 1228	

MATH246 **Differential Equations for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

All sections will use MATLAB.

0111	Casey Cremins MWF 12:00pm - 12:50pm Tu 8:00am - 8:50am	Seats (Total: 25) ARM 0131 MTH B0423	 Discussion
0121	Casey Cremins MWF 12:00pm - 12:50pm Tu 9:30am - 10:20am	Seats (Total: 25) ARM 0131 MTH B0427	 Discussion
0131	Casey Cremins MWF 12:00pm - 12:50pm Tu 11:00am - 11:50am	Seats (Total: 25) ARM 0131 JMZ 1124	 Discussion
0141	Casey Cremins MWF 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 25) ARM 0131 EGR 1102	 Discussion
0211	Charles Levermore TuTh 2:00pm - 3:15pm W 8:00am - 8:50am	Seats (Total: 25) ARM 0135 MTH B0429	 Discussion

0212	Charles Levermore TuTh 2:00pm - 3:15pm W 8:00am - 8:50am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0221	Charles Levermore TuTh 2:00pm - 3:15pm W 9:00am - 9:50am	Seats (Total: 25) ARM 0135 MTH B0429	Discussion
0222	Charles Levermore TuTh 2:00pm - 3:15pm W 9:00am - 9:50am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0231	Charles Levermore TuTh 2:00pm - 3:15pm W 10:00am - 10:50am	Seats (Total: 25) ARM 0135 MTH B0429	Discussion
0232	Charles Levermore TuTh 2:00pm - 3:15pm W 10:00am - 10:50am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0241	Charles Levermore TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 25) ARM 0135 MTH B0429	Discussion
0242	Charles Levermore TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 25) ARM 0135 MTH 0305	Discussion
0311	Matei Machedon TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 25) ARM 0126 MTH 0401	Discussion
0312	Matei Machedon TuTh 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 22) ARM 0126 MTH 0305	Discussion
0321	Matei Machedon TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 25) ARM 0126 MTH 0401	Discussion

0322	Matei Machedon TuTh 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 22) ARM 0126 MTH 0305	Discussion
0331	Matei Machedon TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 25) ARM 0126 MTH 0401	Discussion
0332	Matei Machedon TuTh 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 22) ARM 0126 MTH 0305	Discussion
0341	Matei Machedon TuTh 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 25) ARM 0126 MTH 0401	Discussion
0342	Matei Machedon TuTh 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 22) ARM 0126 MTH 0305	Discussion
0411	Antoine Mellet MWF 2:00pm - 2:50pm Th 8:00am - 8:50am	Seats (Total: 25) ARM 0135 MTH 0304	Discussion
0421	Antoine Mellet MWF 2:00pm - 2:50pm Th 9:30am - 10:20am	Seats (Total: 25) ARM 0135 MTH 0409	Discussion
0431	Antoine Mellet MWF 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 25) ARM 0135 EGR 0108	Discussion
0441	Antoine Mellet MWF 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 25) ARM 0135 MTH 0409	Discussion
0501	Alice Wang TuTh 2:00pm - 3:15pm	Seats (Total: 22) MTH B0421	

MATH246H Differential Equations for Scientists and Engineers

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

For general honors students only. MATH241H will use MATLAB.

0101	Yanir Rubinstein	Seats (Total: 22)
	MWF 10:00am - 10:50am	MTH 1311

MATH274 **History of Mathematics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Prerequisite: MATH130, MATH140, or MATH220.

An overview of aspects in the history of mathematics from its beginning in the concrete problem solving of ancient times through the development of abstraction in the 19th and 20th centuries. The course considers both mathematical ideas and the context in which they developed in various civilizations around the world.

MATH 274 cannot satisfy a CMSC major requirement.

0101	Raluca Rosca	Seats (Total: 22)
	TuTh 2:00pm - 3:15pm	PHY 0405

MATH299A **Selected Topics in Mathematics; Special Topics in Study Abroad II: Introduction to Mathematical Computing**

Credits: 3 Grading Method: Regular

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH299B **Selected Topics in Mathematics; Putnam Express**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

0101	Roohollah Ebrahimian M 4:00pm - 5:30pm	Seats (Total: 22) MTH 0102

MATH310 **Introduction to Mathematical Proof**

Credits: 3 Grading Method: Regular

Prerequisite: MATH141; and must have completed or be concurrently enrolled in MATH241 or MATH340; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461. Restriction: Must be in a major within the CMNS-Mathematics department. Credit only granted for: MATH307 or MATH310. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

0101	Steve Halperin MWF 9:00am - 9:50am	Seats (Total: 27) MTH 0407
0201	Kathryn Truman MWF 10:00am - 10:50am	Seats (Total: 27) MTH 0307
0301	Nathaniael Manning MWF 11:00am - 11:50am	Seats (Total: 27) MTH 0405
0410	Richard Rast MWF 10:00am - 10:50am	Seats (Total: 27) MTH 0303

MATH314 **Introduction to Probability, Data, Analysis and Statistics for Preservice Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH214. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH314 or STAT100.

Analysis of bivariate data, probability and randomness, law of large numbers, central limit theorem, probabilities for independent and dependent events, counting techniques, random variables and probability distributions, expected values, sampling distributions, and confidence intervals.

0101	Elizabeth Fleming M 2:00pm - 3:15pm W 2:00pm - 3:15pm	Seats (Total: 25) EDU 2212 EDU 2121

MATH315 **Algebra for Preservice Middle School Teachers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH112, MATH113, or MATH315.

Algebraic concepts and techniques developed in the middle grades, with their larger mathematical context. Equations, inequalities and functions (linear, polynomial, exponential, logarithmic), with multiple representations of relationships. Common misconceptions of beginning algebra students.

0101	Karen McLaren TuTh 3:30pm - 4:45pm	Seats (Total: 26) JMZ 2120

MATH340 **Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141 and MATH140; and permission of CMNS-Mathematics department; and permission will be granted only to incoming freshmen. Credit only granted for: MATH241 or MATH340.

First semester of the MATH340-341 sequence which gives a unified and enriched treatment of multivariable calculus, linear algebra and ordinary differential equations, with supplementary material from subjects such as differential geometry, Fourier series and calculus of variations. Students completing MATH340-341 will have covered the material of MATH240, MATH241, and MATH246, and may not also receive credit for MATH240, MATH241 or MATH246.

0101	Heyrim Cho MWF 9:00am - 10:15am	Seats (Total: 30) MTH B0421
0201	Richard Wentworth MWF 12:00pm - 1:15pm	Seats (Total: 30) MTH 0409

MATH386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS Mathematics Department.

Contact department for information to register for this course.

MATH401 **Applications of Linear Algebra**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

0101	Wiseley Wong MWF 10:00am - 10:50am	Seats (Total: 29) MTH 0405
0201	Wojciech Czaja MWF 11:00am - 11:50am	Seats (Total: 29) MTH 0201
0301	Manoussos Grillakis TuTh 9:30am - 10:45am	Seats (Total: 29) MTH 0403
0401	Tamas Darvas TuTh 2:00pm - 3:15pm	Seats (Total: 29) MTH 0403

MATH402 **Algebraic Structures**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240, MATH341, or MATH461. Restriction: Must not be in any of the following programs (Mathematics (Master's); Mathematics (Doctoral)). Credit only granted for: MATH402 or MATH403.

For students having only limited experience with rigorous mathematical proofs. Parallels MATH403. Students planning graduate work in mathematics should take MATH403. Groups, rings, integral domains and fields, detailed study of several groups; properties of integers and polynomials. Emphasis is on the origin of the mathematical ideas studied and the logical structure of the subject.

0101	McBlaine Boyle TuTh 11:00am - 12:15pm	Seats (Total: 25) CSI 3118

MATH403 **Introduction to Abstract Algebra**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH340); and 1 course with a minimum grade of C- from (MATH341, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department. Credit only granted for: MATH402 or MATH403.

Integers; groups, rings, integral domains, fields.

0101	Thomas Haines MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0304
0201	Melissa Macasieb TuTh 9:30am - 10:45am	Seats (Total: 22) MTH 1308

MATH405 **Linear Algebra**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and minimum grade of C- in MATH310.

An abstract treatment of finite dimensional vector spaces. Linear transformations and their invariants.

0101	Jeffrey Adams MWF 12:00pm - 12:50pm	Seats (Total: 25) MTH 0106
0201	Patrick Brosnan MWF 12:00pm - 12:50pm	Seats (Total: 25) MTH 1311

MATH406 **Introduction to Number Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

0101	Antoine Mellet MWF 10:00am - 10:50am	Seats (Total: 27) MTH 0201
0201	Justin Wyss-Gallifent MWF 2:00pm - 2:50pm	Seats (Total: 27) MTH 0201

0301	Harry Tamvakis TuTh 2:00pm - 3:15pm	Seats (Total: 27) MTH B0427

MATH410 **Advanced Calculus I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH240 and MATH241. And minimum grade of C- in MATH310; or students who have taken courses with comparable content may contact the department. And permission of CMNS-Mathematics department.

First semester of a year course. Subjects covered during the year are: sequences and series of numbers, continuity and differentiability of real valued functions of one variable, the Riemann integral, sequences of functions and power series. Functions of several variables including partial derivatives, multiple integrals, line and surface integrals. The implicit function theorem.

0101	Kasso Okoudjou MWF 9:00am - 9:50am	Seats (Total: 25) MTH 0201
0201	Charles Levermore TuTh 9:30am - 10:45am	Seats (Total: 25) MTH 0407
0301	Michele Coti Zelati TuTh 11:00am - 12:15pm	Seats (Total: 25) SYM 0209
0401	Swarnava Mukhopadhyay TuTh 12:30pm - 1:45pm	Seats (Total: 25) MTH 0407
0501	Michael Laskowski TuTh 11:00am - 12:15pm	Seats (Total: 25) EGR 1104

MATH411 **Advanced Calculus II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH410; and permission of CMNS-Mathematics department. Credit only granted for: MATH411 or MATH412.

Continuation of MATH410.

0101	Roohollah Ebrahimian MWF 11:00am - 11:50am	Seats (Total: 22) MTH B0421

0201	Matei Machedon	Seats (Total: 22)
	TuTh 2:00pm - 3:15pm	MTH 1308

MATH416 **Applied Harmonic Analysis: An Introduction to Signal Processing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141; and (MATH240, MATH461, or MATH341); and familiarity with MATLAB is required.

Introduces students to the mathematical concepts arising in signal analysis from the applied harmonic analysis point of view. Topics include applied linear algebra, Fourier series, discrete Fourier transform, Fourier transform, Shannon Sampling Theorem, wavelet bases, multiresolution analysis, and discrete wavelet transform.

0101	Benjamin Manning	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0302

MATH424 **Introduction to the Mathematics of Finance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (STAT400, STAT410); and permission of CMNS-Mathematics department. Recommended: MATH246, MATH240, MATH241, MATH340, or MATH341. Credit only granted for: BMGT444, MATH424.

Introduction to the mathematical models used in finance and economics with emphasis on pricing derivative instruments. Designed for students in mathematics, computer science, engineering, finance and physics. Financial markets and instruments; elements from basic probability theory; interest rates and present value analysis; normal distribution of stock returns; option pricing; arbitrage pricing theory; the multiperiod binomial model; the Black-Scholes option pricing formula; proof of the Black-Scholes option pricing formula and applications; trading and hedging of options; Delta hedging; utility functions and portfolio theory; elementary stochastic calculus; Ito's Lemma; the Black-Scholes equation and its conversion to the heat equation.

0101	Dionisios Margetis	Seats (Total: 30)
	MWF 9:00am - 9:50am	MTH 0303

MATH430 **Euclidean and Non-Euclidean Geometries**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461).

Hilbert's axioms for Euclidean geometry. Neutral geometry: the consistency of the hyperbolic parallel postulate and the inconsistency of the elliptic parallel postulate with neutral geometry. Models of hyperbolic geometry. Existence and properties of isometries.

0101	Frances Gulick	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	MTH 0407

MATH431 **Geometry for Computer Graphics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH461, MATH240, or MATH341.

Topics from projective geometry and transformation geometry, emphasizin the two-dimensional representation of three-dimensional objects and objects moving about in the plane and space. The emphasis will be on formulas and algorithms of immediate use in computer graphics.

0101	William Goldman	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 1308

MATH432 **Introduction to Topology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH410.

Metric spaces, topological spaces, connectedness, compactness (includin Heine-Borel and Bolzano-Weierstrass theorems), Cantor sets, continuous maps and homeomorphisms, fundamental group (homotopy, covering spaces, the fundamental theorem of algebra, Brouwer fixed point theorem), surfaces (e.g., Euler characteristic, the index of a vector field, hairy sphere theorem), elements of combinatorial topology (graphs and trees, planarity, coloring problems).

0101	James Schafer	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	MTH 0102

MATH445 **Elementary Mathematical Logic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141.

Elementary development of propositional and predicate logic, including semantics and deductive systems and with a discussion of completeness, incompleteness and the decision problem.

0101	Nathaniael Manning	Seats (Total: 25)
	MWF 3:00pm - 3:50pm	MTH 0407

MATH452 **Introduction to Dynamics and Chaos**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH246; and 1 course with a minimum grade of C- from (MATH240, MATH461). Or minimum grade of C- in MATH340 and MATH341. Also offered as: AMSC452. Credit only granted for: AMSC452 or MATH452.

An introduction to mathematical dynamics and chaos. Orbits, bifurcations, Cantor sets and horseshoes, symbolic dynamics, fractal dimension, notions of stability, flows and chaos. Includes motivation and historical perspectives, as well as examples of fundamental maps studied in dynamics and applications of dynamics.

0101	Denny Gulick	Seats (Total: 25)
	MWF 10:00am - 10:50am	MTH 0102

MATH456 **Cryptology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed two 400-level MATH courses (not to include MATH 461, 478, and 480's) with a minimum grade of C-. Or minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Mathematics department. Also offered as: CMSC456. Credit only granted for: MATH456 or CMSC456.

Importance in protecting data in communications between computers. The subject lies on the border between mathematics and computer science. Mathematical topics include number theory and probability. Computer science topics include complexity theory.

0101	Lawrence Washington	Seats (Total: 55)
	MWF 9:00am - 9:50am	CSI 3117

MATH461 **Linear Algebra for Scientists and Engineers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH141; and must have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH 240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

0111	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0131 MTH 0106	Discussion
0112	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0131 MTH 0409	Discussion
0113	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0131 MTH 0304	Discussion
0121	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 25) ARM 0131 MTH 0407	Discussion
0122	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 25) ARM 0131 MTH B0429	Discussion
0131	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 25) ARM 0131 MTH 0304	Discussion
0132	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 25) ARM 0131 MTH 0303	Discussion
0141	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 25) ARM 0131 MTH 0304	Discussion
0142	Manoussos Grillakis TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 25) ARM 0131 MTH 0302	Discussion

MATH462 Partial Differential Equations

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 or MATH340; and (MATH246 or MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

0101	Jacob Bedrossian MWF 12:00pm - 12:50pm	Seats (Total: 22) MTH B0427
0201	Ricardo Nochetto TuTh 2:00pm - 3:15pm	Seats (Total: 22) MTH 1313

MATH463 **Complex Variables for Scientists and Engineers**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 or MATH340.

The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.

0201	Patrick Fitzpatrick TuTh 11:00am - 12:15pm	Seats (Total: 28) PHY 1219

MATH464 **Transform Methods for Scientists and Engineers**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246 or MATH341.

Fourier transform, Fourier series, discrete fast Fourier transform (DFT and FFT). Laplace transform. Poisson summations, and sampling. Optional Topics: Distributions and operational calculus, PDEs, Wavelet transform, Radon transform and applications such as Imaging, Speech Processing, PDEs of Mathematical Physics, Communications, Inverse Problems.

0101	Radu Balan TuTh 11:00am - 12:15pm	Seats (Total: 25) CSI 4122

MATH478A **Selected Topics For Teachers of Mathematics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MATH489 **Research Interactions in Mathematics; Research Interactions in Mathematics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Students participate in a vertically integrated (undergraduate, graduat and/or postdoctoral, faculty) mathematics research group. Format varies. Students and supervising faculty will agree to a contract which must be approved by the department. Up to three credits of MATH489 may be applied to the mathematics degree requirements. See the department's MATH489 online syllabus for further information.

Contact department for information to register for this course.

MATH498A **Selected Topics in Mathematics**

(Perm req)

Credits: 1-9

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH600 **Abstract Algebra I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH405 and MATH403; or students who have taken courses with comparable content may contact the department.

Groups with operators, homomorphism and isomorphism theorems, normal series, Sylow theorems, free groups, Abelian groups, rings, integral domains, fields, modules. Topics may include HOM (A,B), Tensor products, exterior algebra.

Offered fall only.

0101	Thomas Haines	Seats (Total: 22)
	MWF 11:00am - 11:50am	MTH 1313

MATH602 **Homological Algebra**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: MATH600.

Projective and injective modules, homological dimensions, derived functors, spectral sequence of a composite functor. Applications.

0101	James Schafer	Seats (Total: 22)
	TuTh 9:30am - 10:45am	MTH 1311

MATH606 **Algebraic Geometry I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH600 and MATH601.

Prime and primary ideals in Noetherian rings, Hilbert Nullstellensatz, places and valuations, prevarieties (in the sense of Serre), dimension, morphisms, singularities, varieties, schemes, rationality.

0101	Amin Gholampour	Seats (Total: 20)
	MWF 11:00am - 11:50am	MTH 1311

MATH630 **Real Analysis I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department.

Lebesgue measure and the Lebesgue integral on R, differentiation of functions of bounded variation, absolute continuity and fundamental theorem of calculus, Lp spaces on R, Riesz-Fischer theorem, bounded linear functionals on Lp, measure and outer measure, Fubini's theorem.

0101	Patrick Fitzpatrick	Seats (Total: 22)
	TuTh 2:00pm - 3:15pm	MTH 0303

MATH634 **Harmonic Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH631.

L1 theory: Fejer theorem, inversion theorem, ideal structure, Tauberian theorem. L2 theory: Plancherel-Parseval theorems, Paley-Wiener theorem. Lp theory: Hausdorff-Young theorem. Distribution theory: Bochner's theorem, Wiener continuous measures theorem, Malliavin theorem, Schwartz theory, almost periodic functions.

0101	John Benedetto	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	MTH 1311

MATH642 **Dynamical Systems I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH432. And MATH630; or students who have taken courses with comparable content may contact the department.

Foundations of topological dynamics, homeomorphisms, flows, periodic and recurrent points, transitivity and minimality, symbolic dynamics. Elements of ergodic theory, invariant measures and sets, ergodicity, ergodic theorems, mixing, spectral theory, flows and sections. Applications of dynamical systems to number theory, the Weyl theorem, the distribution of values of polynomials, Vander Waerden's theorem on arithmetic progressions.

0101	Dmitry Dolgopyat	Seats (Total: 22)
	MWF 2:00pm - 2:50pm	MTH 1311

MATH670 **Ordinary Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH405. And MATH410; or students who have taken courses with comparable content may contact the department. Also offered as: AMSC670. Credit only granted for: AMSC670 or MATH670.

Existence and uniqueness, linear systems usually with Floquet theory for periodic systems, linearization and stability, planar systems usually with Poincare-Bendixson theorem.

0101	Giovanni Forni	Seats (Total: 17)
	TuTh 9:30am - 10:45am	MTH B0431

MATH673 **Partial Differential Equations I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Also offered as: AMSC673. Credit only granted for: AMSC673 or MATH673.

Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.

Offered fall only.

0101	Ricardo Nochetto	Seats (Total: 22)
	TuTh 5:00pm - 6:15pm	MTH 1311

MATH689 **Research Interactions in Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH695 **Teaching Seminar**

Credits: 1 Grading Method: Regular

Restriction: Must be in one of the following programs (Mathematics (Doctoral); Mathematics (Master's); Mathematical Statistics (Doctoral); Applied Mathematics and Scientific Computation (Master's); Mathematical Statistics (Master's); Applied Mathematics and Scientific Computation (Doctoral)).

A course intended for first year teaching assistants. Topics include: everyday mechanics of teaching; teaching methods and styles; technology; course enrichment, diversity in the classroom; sexual harassment; teacher-student interactions; presentations by students.

0101	Justin Wyss-Gallifent	Seats (Total: 22)
	W 4:00pm - 5:30pm	MTH B0421

MATH730 **Fundamental Concepts of Topology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH403, MATH410, and MATH411; or students who have taken courses with comparable content may contact the department.

Survey of basic point set topology, fundamental group, covering spaces, Van Kampen's theorem, simplicial complexes, simplicial homology, Euler characteristics and classification of surfaces.

0101	Christian Zickert	Seats (Total: 22)
	TuTh 12:30pm - 1:45pm	PLS 1113

MATH742 **Geometric Analysis**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH673 and MATH674; or MATH740.

Calculus of Variations, Bochner technique, Morse theory, weak solutions and elliptic regularity, maximum principle for elliptic and parabolic equations, Green's function of the Laplacian, isoperimetric and Sobolev inequalities, continuity method, curvature and comparison results, harmonic maps, curvature prescription problems.

0101	Hans-Joachim Hein	Seats (Total: 22)
	TuTh 12:30pm - 1:45pm	EGR 1104

MATH799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH808A **Selected Topics in Algebra**

Credits: 1-3 Grading Method: Regular

Advanced topics of current interest.

Contact department for information to register for this course.

MATH808R **Selected Topics in Algebra; Representation Theory II**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Xuhua He	Seats (Total: 22)
	MWF 10:00am - 10:50am	MTH 0306

MATH818A **Selected Topics in Logic**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848A **Selected Topics in Geometry and Topology**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848C **Selected Topics in Geometry and Topology; Geometric Structures in Manifolds**

Credits: 3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	William Goldman	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	MTH 1313

MATH858A **Selected Topics in Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH858Y **Selected Topics in Analysis; Topics in Fully Nonlinear PDE's**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Yanir Rubinstein	Seats (Total: 22)
	MWF 12:00pm - 12:50pm	MTH 1313

MATH868A **SelectedTopics in Complex Analysis**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MATH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MEES Marine-Estuarine-Environmental Sciences Fall 2015

MEES498I **Topics in Marine-Estuarine-Environmental Sciences; Chesapeake Bay Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Lecture and/or laboratory series organized to study a selected area of marine-estuarine-environmental sciences not otherwise considered in formal courses.

Also offered as MEES698I. Credit granted for MEES498I or MEES698I. Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Carys Mitchelmore	Seats (Total: 20)
	TuTh 2:00pm - 3:30pm	HJP 1213B

MEES606 **Cell and Molecular Biology for Environmental Scientists**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: An undergraduate course in cell biology or biochemistry. Credit only granted for: MEES698C or MEES606. Formerly: MEES698C.

An invisible world courses through every living thing. This is the world of molecules, tiny machines millions of time smaller than the machines we are most familiar with, like automobiles. Individually, each of the molecules is a delicate instrument, measuring, making, weighing, and building the thing we call life. The molecules of living things are unique among the molecules of the Earth. These tiny molecular messengers, engines, and machines are built to perform highly specific tasks unlike the molecules formed by physical processes.

Taught at the Institute of Marine & Environmental Technology and on the Interactive Video Network.

0101	Rosemary Jagus, Allen Place	Seats (Total: 20)	
	TuTh 8:00am - 10:00am	HJP 1213B	

MEES607 **Quantitative Methods in Environmental Sciences**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH220 and MATH221; or students who have taken courses with comparable content may contact the department. Credit only granted for: MEES607 or MEES698G. Formerly: MEES698G.

Mathematical approaches and solutions (both analytical and numerical) that cut across environmental disciplines, and will introduce analytical techniques.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Lawrence Sanford, Thomas Miller	Seats (Total: 20)	
	TuTh 3:30pm - 5:00pm	HJP 1213B	
	F 9:00am - 10:00am	HJP 1213B	Discussion

MEES608B **Seminar in Marine-Estuarine-Environmental Sciences; Responsible Conduct of Research**

Credits: 1 Grading Method: Regular, Audit

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Thomas Miller, Russell Hill	Seats (Total: 20)
	M 1:00pm - 1:50pm	HJP 1213B

MEES608D **Seminar in Marine-Estuarine-Environmental Sciences; Scientific Writing and Communication**

Credits: 2 Grading Method: Regular, Audit

Taught at the Horn Point Laboratory and on the Interactive Video Network.

0101	Elizabeth North	Seats (Total: 24)
	W 9:00am - 11:00am	HJP 1213C

MEES608G **Seminar in Marine-Estuarine-Environmental Sciences; Scientific Writing and Presentations**

Credits: 1 Grading Method: Regular, Audit

Also offered as BIOL608R and CONS608G. Credit granted for BIOL608R, CONS608G, or MEES608G.

0101	Keryn Gedan	Seats (Total: 12)
	Contact instructor or department for details.	

MEES608O **Seminar in Marine-Estuarine-Environmental Sciences; Current Topics in Omics: Cell Biology, Genetics and Genomics**

Credits: 2 Grading Method: Regular, Audit

Course is taught at the Institute of Marine & Environmental Technology, Baltimore, MD and on the Interactive Video Network.

0101	Shao Du, Jum Sook Chung	Seats (Total: 10)
	F 12:00pm - 2:00pm	HJP 1213B

MEES608W **Seminar in Marine-Estuarine-Environmental Sciences; Classic Readings in Ecology**

Credits: 2 Grading Method: Regular, Audit

Taught at Appalachian Laboratories and over the Interactive Video Network

0101	Katharina Engelhardt	Seats (Total: 20)
	F 10:00am - 12:00pm	HJP 1213B

MEES621 **Biological Oceanography**

Credits: 4 Grading Method: Regular, Audit

Population and community ecology of estuarine and marine systems; coastal and estuarine processes are emphasized in the context of oceans in general. Field and lab trips required.

Course is taught at the Horn Point Laboratory and on the Interactive Video Network.

0101	Raleigh Hood, Judith O'Neil, Louis Plough	Seats (Total: 25)
	TuTh 12:00pm - 2:00pm	HJP 1213B

MEES626 **Environmental Geochemistry I**

Credits: 3 Grading Method: Regular, Audit

Recommended: Completion of one semester of physical chemistry is recommended. Restriction: Permission of instructor. Credit only granted for: MEES626 or MEES698L. Formerly: MEES698L.

Brief overview of biogeochemical cycles; fundamental aquatic chemistry that can be applied to a variety of environmental systems.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Johan Schijf MW 8:30am - 10:00am	Seats (Total: 25) HJP 1213B

MEES650 **Wetland Ecology**

Credits: 3 Grading Method: Regular

Prerequisite: BIOM301; or permission of instructor. Also offered as: ENST450, ENST650. Credit only granted for: ENST450, ENST650, NRMT450, or MEES650.

Plant and animal communities, biogeochemistry, and ecosystem properties of wetland systems. Laboratory emphasizes collection and analysis of field data on wetland vegetation, soil, and hydrology.

Course requires two Saturday field trips.

0101	Andrew Baldwin TuTh 2:00pm - 3:15pm	Seats (Total: 20) ANS 0422

MEES698B **Special Topics in Marine-Estuarine-Environmental Sciences; Environmental Statistics I**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Dong Liang MW 10:00am - 11:30am	Seats (Total: 30) HJP 1213B

MEES698C **Special Topics in Marine-Estuarine-Environmental Sciences; Chemical Oceanography**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught on the Interactive Video Network.

0101	Michael Gonsior, Andrew Heyes, Laura Lapham, Kelly Kilbourne, Lee Cooper MW 1:30pm - 3:00pm	Seats (Total: 20) HJP 1213C

MEES698E **Special Topics in Marine-Estuarine-Environmental Sciences; Principles and Practices of Ecosystem Restoration**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as GEOL453 and GEOL789L. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosystem services and habitat quality. Includesa semester research project.

0101	Sujay Kaushal Tu 3:30pm - 6:30pm	Seats (Total: 20) BPS 1232

MEES698I **Special Topics in Marine-Estuarine-Environmental Sciences; Chesapeake Bay Health**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as MEES498I. Credit granted for MEES498I or MEES698I. Taught at the Chesapeake Biological Laboratory and on the Interactive Video Network.

0101	Carys Mitchelmore TuTh 2:00pm - 3:30pm	Seats (Total: 20) HJP 1213B

MEES698N **Special Topics in Marine-Estuarine-Environmental Sciences; Seminar in Ecological and Environmental Genomics**

Credits: 2 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at the Horn Point Laboratory and on the Interactive Video Network

0101	Louis Plough	Seats (Total: 20)
	MW 2:00pm - 3:00pm	HJP 1213B

MEES698R **Special Topics in Marine-Estuarine-Environmental Sciences; Stable Isotopes in Environmental Research**

Credits: 3 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at the Appalachian Laboratory over the Intervative Video Network.

0101	Lee Cooper, David Nelson	Seats (Total: 20)
	TuTh 2:00pm - 3:30pm	HJP 1213C

MEES698W **Special Topics in Marine-Estuarine-Environmental Sciences; Chemistry of Natural Waters**

Credits: 3-4 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as ENCE651. Application of principles from chemical thermodynamics and kinetics to the study and interpretation of the chemical composition of natural waters is rationalized by considering metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions which occur in natural water environments.

0101	Alba Torrents	Seats (Total: 20)
	TuTh 8:00am - 9:15am	EGR 1102

MEES698X **Special Topics in Marine-Estuarine-Environmental Sciences; Remote Sensing for Environmental Management**

Credits: 4 Grading Method: Regular, Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

0101	Andrew Elmore	Seats (Total: 20)
	TuTh 10:00am - 12:00pm	HJP 1213B

MEES699 **Special Problems in Marine-Estuarine-Environmental Sciences**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research on specialized topics under the direction of individual faculty members.

Contact department for information to register for this course.

MEES708F **Advanced Topics in Marine-Estuarine-Environmental Science; Ethical Aspect of Environmental Science**

Credits: 1 Grading Method: Regular, Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Taught at the Horn Point Laboratory and on the Interactive Video Network

0101	Cynthia Palinkas	Seats (Total: 20)
	M 12:00pm - 1:00pm	HJP 1213B

MEES708G **Advanced Topics in Marine-Estuarine-Environmental Science; Sea Level Rise and Coastal Habitats**

Credits: 1 Grading Method: Regular, Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Taught at UMCP over the Interactive Video Network.

0101	Keryn Gedan	Seats (Total: 20)
	F 4:00pm - 4:50pm	HJP 1213B

MEES708K **Advanced Topics in Marine-Estuarine-Environmental Science; Scientific Basis for a Chesapeake Headwaters Report Card**

Credits: 2 Grading Method: Regular, Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

0101	Robert Hilderbrand, Andrew Elmore, Eric Davidson, William Dennison	Seats (Total: 20)
	W 11:30am - 1:30pm	HJP 1213B
	Taught at the Appalachian Laboratory and on the Interactive Video Network.	

MEES799 **Masters Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MEES898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MEES899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health Fall 2015

MIEH300 **A Public Health Perspective: Introduction to Environmental Health**

Credits: 3 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132. Restriction: Junior standing or higher. And must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. The Environmental health field is a broad, multi-disciplinary field. Environmental health scientists face complex problems requiring multi-disciplinary approaches. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

0101	Devon Payne-Sturges	Seats (Total: 54)
	MWF 9:00am - 9:50am	SPH 1303

SG91	Beverly Wolpert M 5:00pm - 7:50pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 36) Location: TBA
SG92	Billy McArthur W 5:00pm - 7:50pm *Restricted to Public Health Science students (code:12140).*	Seats (Total: 36) Location: TBA

MIEH309 **Environmental Health Research**

(Perm req)

Credits: 1-3 Grading Method: Regular

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0201	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0207	Michael Grantham Contact instructor or department for details.	Seats (Total: 5)
0208	Lesliam Quiros Alcala Contact instructor or department for details.	Seats (Total: 5)

0209	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)
0210	Muhiuddin Haider Contact instructor or department for details.	Seats (Total: 5)

MIEH321 **Syphilis to SARS: Climate Change, Development and Emergence of Infectious Diseases**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Syphilis to SARS will examine the influences of environmental factors, economic development, migration, and land use changes on emergence and reemergence of infectious diseases. Population growth, development, and climate change are impacting natural reservoirs of infectious diseases and how they transmit through human populations. The course will look at both historical accounts and newly emerging and reemerging diseases including influenza as examples of our role in altering the diseases that threaten us. We will also critically evaluate how the issues are portrayed in news and entertainment media and controversy about the ethics of research on deadly viruses.

0101	Michael Grantham MWF 9:00am - 9:50am	Seats (Total: 40) SPH 1312

MIEH400 **Introduction to Global Health**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MIEH300. Restriction: Must be in Public Health Science program; or permission of SPHL-School of Public Health. And must have earned a minimum of 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

0101	Muhiuddin Haider, Amir Sapkota Th 4:00pm - 6:30pm	Seats (Total: 49) SPH 1302

MIEH600 **Foundations of Environmental Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.

Overview of the chemical, physical and biological hazards present in ou living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessement, ecological issues and environmental laws.

0101	Sacoby Wilson M 4:00pm - 6:45pm	Seats (Total: 20) SPH 0308
PLH1	James McDevitt Contact instructor or department for details. *Restricted to students in MPH-PHPP or GC-PPH programs.*	Seats (Total: 30)

MIEH605 **Fundamentals of Global Health**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: SPHL600 or SPHL698A. Formerly: SPHL698A.

Exploration of theoretical frameworks and practicial perspectives in global health with particular attention to the analysis of the biological, epidemiological, social, cultural and behavioral interactions that affect global health study and project implementation. The emphasis is on innovative solutions to health issues in underserved populations.

0101	Muhiuddin Haider W 5:00pm - 7:00pm Class time/details on ELMs	Seats (Total: 10) SPH 2234CC ONLINE
PCG1	Muhiuddin Haider W 5:00pm - 7:00pm Class time/details on ELMs *Restricted to students in the Global Health Certificate Program.*	Seats (Total: 10) SPH 2234CC ONLINE

MIEH688 **Seminar in the Maryland Institute for Applied Environmental Health: Current Topics in Environmental Health**

Credits: 1 Grading Method: Sat-Fail

Invited and in-house research presentations from guest scientists, faculty members, and students, and critical analysis of journal articles on current topics in environmental and occupational health.

0101	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 10)

MIEH735 **Food Toxicology**

Credits: 3 Grading Method: Regular, Audit

Recommended: BSCI440, CHEM131, or BCHM462.

An introduction to basic concepts in toxicology in relation to toxic food contaminants and additives; both synthetic and naturally occurring. Focus on exposure routes, molecular targets and susceptible individuals. Also includes regulatory toxicology with respect food toxins.

Also offered as NFSC735. Credit will be granted for MIEH735 or NFSC735.

0101	Paul Turner, Robert Buchanan W 1:00pm - 3:45pm	Seats (Total: 20) SPH 0227

MIEH740 **Environmental Health Risk Assessment**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MIEH600.

Review of the major methods of human and ecological risk assessment conducted by the U.S. Environment Protection Agency. Emphasis on sources of uncertainty.

0101	Abdel-Razak Kadry M 4:00pm - 6:45pm	Seats (Total: 15) CCC 1115

MIEH773 **Foodborne, Waterborne and Airborne Infectious Diseases**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MIEH600.

In-depth study of foodborne, waterborne and airborne diseases caused by bacteria, viruses and parasites. Topics will include sources and detection of causative agents; their transmission to humans via food, water, air and other environmental media; and methods of disease prevention, including food safety approaches and drinking water treatment. Classes include lectures, discussions, field-trips and hands-on field sampling and laboratory activities.

0101	Amy Sapkota W 9:00am - 11:45am	Seats (Total: 10) EGR 3111

MIEH780 **Environmental and Occupational Hygiene**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EPIB610 and MIEH720. Corequisite: MIEH740. Recommended: EPIB650, MIEH771, and MIEH770.

A synthesis of epdemiology, toxicology, exposure science, risk assessment, and policy. Emphasis will be on methods for prevention and control of injury and illness, the hierarchy of controls, current hot topics, and selected environmental and occupational injuries.

0101	Lesliam Quiros Alcala Tu 4:00pm - 6:45pm	Seats (Total: 15) SPH 1302

MIEH785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)

MIEH786 **Captsone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0201	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0202	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0203	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0204	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0205	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0206	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)

MIEH788 **Critical Readings in Environmental Health**

Credits: 1-3 Grading Method: Regular, Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

Contact department for information to register for this course.

MIEH789 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MIEH899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

MLAW MPower Undergraduate Law Programs Fall 2015

MLAW100 **Justice and the Law**

Credits: 3 Grading Method: Regular General Education: DSHS

Restriction: Course enrollment is restricted to students in the College Park Scholars Justice and Legal Thought Program (CPJT).

An exploration into the relationship between justice and law, including psychological, philosophical, political and legal approaches to justice, as well as an analytical framework for understanding human rights.

Restricted to College Park Scholars students in the Justice & Legal Thought Program.

0101	Karol Soltan TuTh 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 23) CCC 1205 CCC 1200	 Discussion
0102	Karol Soltan TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 23) CCC 1205 CCC 1200	 Discussion
0103	Karol Soltan TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) CCC 1205 CCC 1200	 Discussion

MLAW304 **Introduction to Law and Social Inquiry**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be in the Law and Society (MLAW) minor.

An exploration of the relationship between law and society from an interdisciplinary perspective. Major themes cover the impact of law on society, society on law and social change.

0101	Robert Koulish	Seats (Total: 79)
	TuTh 9:30am - 10:45am	TYD 2109

MLAW358E **Selected Topics in Law and Society; Environmental Law**

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

An in depth analysis of special topics in environmental law through a societal lens that includes an examination of domestic and international law, policy, and politics.

0101	Instructor: TBA	Seats (Total: 16)
	MW 1:00pm - 2:15pm	TYD 3100

MLAW377 **The Legal Profession**

Credits: 3 Grading Method: Regular

Restriction: Must be in the Law and Society Minor.

Designed to introduce students to a variety of legal fields. The course is designed to combine social science literature about the legal profession with real world experiences with lawyers and legal workers. It will address questions about law as a profession, field of advocacy and as a business.

0101	Brandee Pettus	Seats (Total: 75)
	M 4:00pm - 6:30pm	PLS 1140

MLAW388 **Law and Society Internship**

Credits: 1-4 Grading Method: Regular

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

0101	Brandee Pettus	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

MOCB Molecular and Cell Biology Fall 2015

MOCB608 **Molecular and Cell Biology Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar in molecular and cell biology.

0101	Jonathan Dinman	Seats (Total: 12)
	Contact instructor or department for details.	

MOCB699 **Laboratory Rotation**

(Perm req)

Credits: 2-3 Grading Method: Sat-Fail

Laboratory experience in molecular-cell biology.

Contact department for information to register for this course.

MOCB898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

MOCB899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MUED Music Education Fall 2015

MUED155 **Fundamentals for the Classroom Teacher**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in one of the following programs (Early Childhood Education; Elementary Education) ; or must be a Pre-Elementary Education major; or must be a Pre-Early Childhood Education major.

The fundamentals of music theory and practice, related to the needs of the classroom and the kindergarten teacher.

0101	Jessica Kendal	Seats (Total: 25)
	M 4:15pm - 7:00pm	PAC 3160
0201	Jessica Kendal	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	PAC 3168

MUED186 **Pre-professional Experiences I**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Music Education program.

An orientation into the role of the music teacher in the school and community. On-site school visits at elementary, middle and high school levels form the basis for discussion and exploration of all facets of the music education profession. Fulfills the College of Arts and Humanities requirement for UNIV101.

0101	Janet Montgomery	Seats (Total: 30)	
	MW 10:00am - 10:50am	PAC 2130A	
	W 9:00am - 9:50am	PAC 2130A	Lab

MUED215 **Woodwind Technique and Pedagogy**

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUED116, MUED117, or MUED215. Formerly: MUED116 and MUED117.

Playing experience on instruments of the woodwind family. Historical and acoustical background. Principles of improvisation. Basic concepts of teaching. Methods and materials. Techniques of individual and class instruction.

0101	Anthony Rivera	Seats (Total: 15)
	MWF 10:00am - 10:50am	PAC 2540

MUED320 **Teaching Secondary Instrumental Music I**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUED187. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to extend secondary-level musical skill through planned instruction and development of teaching materials.

0101	Stephanie Prichard	Seats (Total: 12)
	TuTh 9:30am - 10:45am	PAC 1230

MUED333 **Classroom Vocal Pedagogy**

(Perm req)

Credits: 2

Grading Method: Regular

Prerequisite: MUED187 and MUED186. Restriction: Must be in Music Education program.

An introduction to the fundamentals of group vocal pedagogy for the choral and general classroom teacher, including the teaching of posture, breathing, resonance, registration, articulation and foreign language diction as appropriate to needs of the child or adolescent singer in K-12 classroom settings.

0101	Kenneth Elpus	Seats (Total: 10)
	W 4:00pm - 6:00pm	PAC 2130A

MUED420 **Teaching Secondary Instrumental Music II**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: MUED320 and MUED311. Corequisite: MUED489. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and/or maintain an exemplary, curricular-oriented, research-based, comprehensive secondary instrumental program.

0101	Michael Hewitt	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PAC 2540

MUED471 **Teaching General Music**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUED222 and MUED333. Corequisite: MUED489. Restriction: Must be in Music Education program.

An examination of children's musical development via model teaching experiences. Students in this course will be involved in learning appropriate techniques and materials used to plan, deliver, and assess musical instruction effectively in general music settings for K-12 students. The focus is on how to implement a sequential, balanced, and comprehensive music curriculum (i.e., artistic processes: creating, performing, and responding) that emphasizes opportunities for students to construct their own learning.

0101	Janet Montgomery	Seats (Total: 15)
	TuTh 9:30am - 10:45am	PAC 2130A

MUED474 **Field Experiences: Pre-Student Teaching**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: MUED420 and MUED411; or (MUED472 and MUED471). Restriction: Permission of ARHU-School of Music department; and senior standing.

Field experiences to fulfill teaching requirements in K-12 music teache education program.

0101	Janet Montgomery	Seats (Total: 15)
	Tu 7:00pm - 8:00pm	Location: TBA

MUED484 **Student Teaching in Elementary School: Music**

(Perm req)

Credits: 4-6 Grading Method: Sat-Fail

Corequisite: MUED494. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfills elementary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

0101	Kenneth Elpus	Seats (Total: 15)	
	Tu 4:30pm - 6:30pm	Location: TBA	Lab

MUED489G **Field Experiences; Field Experiences-General**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Series of field experiences in K-12 settings.

0101	Janet Montgomery	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	PAC 2130A

MUED489I **Field Experiences; Field Experiences-Instrumental**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Series of field experiences in K-12 settings.

0101	Michael Hewitt	Seats (Total: 20)
	Contact instructor or department for details.	

MUED494 **Student Teaching in Secondary School: Music**

(Perm req)

Credits: 4-6 Grading Method: Sat-Fail

Corequisite: MUED484. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfill secondary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

Students must pay a $750.00 student teaching fee.

0101	Kenneth Elpus	Seats (Total: 15)	
	TBA	PAC 2130A	Lab

MUED692 **Foundations and Perspectives of Music Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department.

An introduction to historical, sociological, and philosophical perspectives of music education.

0101	Janet Montgomery	Seats (Total: 15)
	M 5:00pm - 7:00pm Contact instructor or department for details.	PAC 2130

MUED785 **Teaching Music in Higher Education**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prepare students for music faculty positions in higher education institutions. The course readings, discussions, assignments, and experiences are aimed to develop the knowledge, skills, and dispositions necessary to be a successful member of the faculty at a variety of institutions.

0101	Michael Hewitt	Seats (Total: 15)
	M 10:00am - 12:30pm	PAC 3168

MUSC School of Music Fall 2015

MUSC099 **Performance Attendance**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Performance attendance laboratory for undergraduate music majors.

0101	Zachariah Matteson	Seats (Total: 150)
	Contact instructor or department for details.	

MUSC102 **Class Piano**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

For MUSC majors only.

0101	Mijail Tumanov Pavlov TuTh 2:00pm - 3:15pm	Seats (Total: 14) PAC 1123
0201	David Henry MWF 11:00am - 11:50am	Seats (Total: 14) PAC 1123
0301	David Henry MWF 1:00pm - 1:50pm	Seats (Total: 14) PAC 1123
FC01	Natasha Stollmack TuTh 4:30pm - 5:45pm *Restricted to Freshman Connection.*	Seats (Total: 14) PAC 1123

MUSC102B **Class Piano**

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

0101	Mijail Tumanov Pavlov TuTh 11:00am - 12:15pm	Seats (Total: 14) PAC 1123

MUSC106 **Beginning Classical Guitar**

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Introduction to classical guitar notation, technique, literature and performance. No previous musical experience required.

For students with no previous musical experience.

0101	Gerard Kunkel MW 11:00am - 11:50am	Seats (Total: 12) PAC 1230

MUSC123 **Movement for Singers**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

Systematic exercises, improvisations and dances in conjunction with artistic vocal expression. Performance and critique of stage deportment, gestures and recital techniques.

0101	Carmen Balthrop Tu 6:15pm - 7:45pm	Seats (Total: 15) TWS 1121

MUSC127 **Vocal Diction: Italian**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within the ARHU-School of Music department.

Augmentation of private voice study. Phonetics and diction for singers of Italian vocal literature.

0101	Diba Alvi TuTh 2:00pm - 2:50pm	Seats (Total: 15) PAC 3164

MUSC128 **Sight Reading For Pianists**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

A course to give the piano major an opportunity to develop proficiency in sight reading at the keyboard.

0101	Katerina Zaitseva TuTh 2:00pm - 3:15pm	Seats (Total: 5) PAC 3160

MUSC129 **Ensemble**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

FC01	David Salness Contact instructor or department for details. *Restricted to Freshman Connection.*	Seats (Total: 1)	
FC02	Lee Hinkle Contact instructor or department for details.	Seats (Total: 1)	

MUSC129A **Ensemble; Chamber Music - Strings**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	David Salness TuTh 11:00am - 12:15pm	Seats (Total: 45) PAC 2201	 Lab
0801	Instructor: TBA	Seats (Total: 0)	
0901	Instructor: TBA	Seats (Total: 10)	

MUSC129B **Ensemble; Chamber Woodwinds**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	Mark Hill TuTh 11:00am - 12:15pm	Seats (Total: 40) PAC 2201	 Lab

MUSC129C **Ensemble; Chamber Music - Brasses**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For MUSC majors only.

0101	Gregory Miller	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	PAC 2201	Lab

MUSC129G **Ensemble; Balinese Gamelan**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	I Suadin	Seats (Total: 20)	
	Th 7:00pm - 8:30pm	PAC 1230	Lab

MUSC129K **Ensemble; Japanese Koto**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto	Seats (Total: 10)	
	Tu 5:30pm - 7:00pm	PAC 3160	Lab

MUSC129L **Ensemble; Advanced Japanese Koto**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto	Seats (Total: 4)	
	Tu 7:00pm - 8:30pm	PAC 3160	Lab

MUSC129P **Ensemble; Percussion**

(Perm req) Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Lee Hinkle	Seats (Total: 15)	
	M 5:00pm - 7:30pm	PAC 2540	Lab
	W 5:15pm - 7:15pm	PAC 2540	Lab

MUSC129Q Ensemble; Korean Percussion Ensemble

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Sebastian Wang	Seats (Total: 17)	
	Th 7:00pm - 8:30pm	PAC 2170	

MUSC130 Survey of Music Literature

Credits: 3 Grading Method: Regular, Audit CORE: HA General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

0101	Dianne Goldman	Seats (Total: 13)	
	MW 1:00pm - 1:50pm	PAC 2200	
	F 9:00am - 9:50am	PAC 3168	Discussion
0102	Dianne Goldman	Seats (Total: 15)	
	MW 1:00pm - 1:50pm	PAC 2200	
	F 10:00am - 10:50am	PAC 3168	Discussion
0103	Dianne Goldman	Seats (Total: 15)	
	MW 1:00pm - 1:50pm	PAC 2200	
	F 11:00am - 11:50am	PAC 3168	Discussion

0104	Dianne Goldman MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 15) PAC 2200 PAC 3160	 Discussion
0105	Dianne Goldman MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 15) PAC 2200 PAC 3160	 Discussion

MUSC130H **Survey of Music Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

For general honors students only.

0109	Dianne Goldman MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 10) PAC 2200 PAC 3160	 Discussion

MUSC130S **Survey of Music Literature**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

A study of the principles upon which music is based, and an introduction to the musical repertory performed in America today.

Restricted to College Park Scholars - Arts.

0101	Dianne Goldman MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 7) PAC 2200 PAC 3168	 Discussion

MUSC140 **Music Fundamentals I**

Credits: 3 | Grading Method: Regular, Audit | CORE: HA | General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

0101	Jared Kenlon MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 12) PAC 2168 PAC 1108	 Discussion
0102	Jared Kenlon MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 13) PAC 2168 PAC 1108	 Discussion
0201	Eric Pazdziora MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 12) PAC 2168 PAC 1108	 Discussion
0202	Eric Pazdziora MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 13) PAC 2168 PAC 1108	 Discussion
FC01	Bradley Green M 4:30pm - 5:45pm W 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PAC 2168 PAC 1108	 Lab

MUSC150 **Theory of Music I**

(Perm req)

Credits: 3 | Grading Method: Regular, Audit

Prerequisite: Departmental audition and entrance examination. Restriction: Must be in one of the following programs (Music (Liberal Arts Program); Music (Jazz Performance Option); Music (Winds & Percussions Performance Option); Music (Voice Performance Option); Music Composition; Music (Professional Program); Music (Piano Performance Option); Music Performance-Winds and Percussion; Music Theory and Composition; Music Performance-Piano; Music Performance-Jazz Studies; Music Performance-Voice; Music Performance-Strings; Music (Strings Performance Option)).

A study of basic concepts and skills in tonal melody and harmony through analysis and composition.

0101	Richard Layton MWF 8:00am - 8:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2160	 Lab
0102	Richard Layton MWF 8:00am - 8:50am TuTh 9:30am - 10:20am	Seats (Total: 6) PAC 2160 PAC 2160	 Lab
0201	Geoffrey Sheil TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3160 PAC 2164	 Lab
0202	Geoffrey Sheil TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3160 PAC 2168	 Lab
0301	Richard Layton MWF 10:00am - 10:50am TuTh 9:30am - 10:20am	Seats (Total: 6) PAC 2160 PAC 2164	 Lab
0302	Richard Layton MWF 10:00am - 10:50am TuTh 9:30am - 10:20am	Seats (Total: 6) PAC 2160 PAC 2168	 Lab
FC01	Michael Oberhauser MWTh 6:00pm - 7:15pm *Restricted to Freshman Connection.*	Seats (Total: 16) PAC 3168	

MUSC202 **Intermediate Class Piano I**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC103; or must have equivalent piano training.

Advanced keyboard techniques. Continuation of skills introduced in MUSC103. Transposition, modulation and sight reading; methods of teaching functional piano.

Only for voice and instrumental principals with limited piano experience.

0101	Katerina Zaitseva MWF 9:00am - 9:50am	Seats (Total: 15) PAC 1123

MUSC205 History of Popular Music, 1950-Present

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

0101	Richard King MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 2164	Discussion
0102	Richard King MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 2164	Discussion
0103	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2164	Discussion
0104	Richard King MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0105	Richard King MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0106	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0107	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0108	Richard King MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 2200	Discussion
0109	Richard King MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 2200	Discussion

0110	Richard King MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
0111	Richard King MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion
0112	Richard King MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 3164	Discussion

MUSC210 **The Impact of Music on Life**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET210 or MUSC210. Formerly: MUET210.

Music as a part of culture. Materials drawn from traditions throughout the globe to illustrate issues of historical and contemporary significance, including the impact of race, class and gender on the study of music.

0101	Fernando Rios MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0102	Fernando Rios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0103	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0104	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0105	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion

0106	Fernando Rios MW 1:00pm - 1:50pm F 3:00pm - 3:50pm	Seats (Total: 20) ARC 0204 PAC 1815	Discussion
0107	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0108	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0109	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 2168	Discussion
0110	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion
0111	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion
0112	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) ARC 0204 PAC 3168	Discussion

MUSC215 **World Popular Musics and Identity**

Credits: 3 | Grading Method: Regular, Audit | CORE: HA, D | General Education: DSHU, DVUP

Credit only granted for: MUET200 or MUSC215. Formerly: MUET200.

Focus on popular musics in different cultures with an emphasis on cross-cultural comparisons and analysis of how musics and identity intersect.

0101	Laura Schnitker MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 18) SKN 0200 EDU 2101	Discussion

0102	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 18) SKN 0200 EDU 2101	Discussion
0103	Laura Schnitker MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 18) SKN 0200 EDU 2101	Discussion
0104	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 18) SKN 0200 KNI 1103	Discussion
0105	Laura Schnitker MW 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 18) SKN 0200 KNI 1103	Discussion
0106	Laura Schnitker MW 12:00pm - 12:50pm F 3:00pm - 3:50pm	Seats (Total: 18) SKN 0200 KNI 1103	Discussion
0107	Laura Schnitker MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 18) SKN 0200 BPS 1236	Discussion
0108	Laura Schnitker MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 18) SKN 0200 BPS 1236	Discussion
0109	Laura Schnitker MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) SKN 0200 BPS 1236	Discussion

MUSC220 **Selected Musical Cultures of the World**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET220 or MUSC220. Formerly: MUET220.

A survey of selected musical cultures of the world, such as India, Japan, China, Indonesia, West Africa, Eastern Europe and the Near East.

0101	Nicholas Tochka MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0102	Nicholas Tochka MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0103	Nicholas Tochka MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 PAC 3164	Discussion
0104	Nicholas Tochka MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
0105	Nicholas Tochka MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
0106	Nicholas Tochka MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0220 PAC 2164	Discussion
FC01	Eric Hermann MW 4:30pm - 5:45pm *Restricted to students in Freshman Connection.*	Seats (Total: 25) HBK 0115	

MUSC227 **Vocal Diction: German**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Augmentation of private study. Phonetics and diction for singers of German vocal literature.

0101	Diba Alvi TuTh 11:00am - 11:50am	Seats (Total: 15) PAC 3164	

MUSC229A **Ensemble; Orchestra**

(Perm req) Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	James Ross	Seats (Total: 70)	
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab

MUSC229D Ensemble; Wind Orchestra

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 50)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC229E Ensemble; Wind Ensemble

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 75)	
	MWF 11:00am - 12:30pm	PAC 2540	Lab

MUSC229F Ensemble; Marching Band

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition.

0101	Elijah Osterloh, Craig Potter	Seats (Total: 300)	
	MWF 3:00pm - 5:00pm	PAC 2540	Lab

MUSC229G **Ensemble; Marching Band Repertoire**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Corequisite: MUSC 229F.

0101	Craig Potter, Elijah Osterloh	Seats (Total: 300)	
	Tu 7:00pm - 9:00pm	PAC 2540	Lab

MUSC229I **Ensemble; Marching Band Auxiliary**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Corequisite: MUSC 229F.

0101	Craig Potter, Elijah Osterloh	Seats (Total: 50)	
	TuTh 6:30pm - 8:30pm	PAC 2540	Lab

MUSC229J **Ensemble; Jazz Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Christopher Vadala	Seats (Total: 25)	
	MW 5:30pm - 7:15pm	PAC 1230	Lab
0201	Christopher Vadala	Seats (Total: 30)	
	MW 1:00pm - 2:20pm	PAC 1230	Lab

0301	Christopher Vadala	Seats (Total: 30)	
	M 7:30pm - 9:30pm	PAC 1230	Lab

MUSC229P **Ensemble; Pep Band**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Permission of Instructor.

0101	Elijah Osterloh	Seats (Total: 60)	
	Contact instructor or department for details.		

MUSC229R **Ensemble; Repertoire Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	James Ross	Seats (Total: 50)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC229U **Ensemble; University Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition, contact instructor to make arrangements.

0101	Craig Potter	Seats (Total: 100)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC229Z **Ensemble; Jazz Combo**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Gerard Kunkel Contact instructor or department for details.	Seats (Total: 10)	
0201	Thomas Baldwin Contact instructor or department for details.	Seats (Total: 10)	
0301	Jeffrey Reed Contact instructor or department for details.	Seats (Total: 10)	
0401	Brendan Schnabel Contact instructor or department for details.	Seats (Total: 10)	

MUSC250 **Advanced Theory of Music I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in MUSC151.

A continuation of MUSC 151, with further study of chromatic and modulatory techniques of the nineteenth century. Emphasis on sight singing, ear training, analysis and compositional skills.

0101	Richard Layton MWF 9:00am - 9:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2164	 Lab
0102	Richard Layton MWF 9:00am - 9:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2168	 Lab
0201	Daniel Zimmerman TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3164 PAC 2164	 Lab

0202	Daniel Zimmerman TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3164 PAC 2168	 Lab
0301	Mark Wilson TuTh 9:30am - 10:45am MW 9:00am - 9:50am	Seats (Total: 6) PAC 3168 PAC 3160	 Lab
0302	Mark Wilson TuTh 9:30am - 10:45am MW 10:00am - 10:50am	Seats (Total: 6) PAC 3168 PAC 3160	 Lab

MUSC269R **Special Topics in Study Abroad II; From Elvis to Rap: 50 Years of History As Seen Through Rock Music**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC310 **Music History I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC151; and permission of ARHU-School of Music department. Credit only granted for: MUSC310 or MUSC331. Formerly: MUSC331.

A historical study of Western music from Antiquity to 1600.

0101	Dianne Goldman MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) PAC 2200 PAC 2160	 Discussion
0102	Dianne Goldman MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 25) PAC 2200 PAC 2160	 Discussion
0103	Dianne Goldman MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 25) PAC 2200 PAC 2160	 Discussion

MUSC328 **Introduction to Chamber Music for Pianists**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A course to introduce the piano major to chamber music at a moderately difficult level. Class instruction will center on actual rehearsal and coaching geared toward performance, and will be supplemented by further experience in applied instrumental studios.

0101	Jessica McKee	Seats (Total: 10)	
	Tu 4:00pm - 6:00pm	PAC 2126	

MUSC329A **Ensemble; University of Maryland Chorale**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

0101	Rachel Carlson, Edward Maclary, Steven Seigart	Seats (Total: 75)	
	TuTh 4:30pm - 6:00pm	PAC 2201	Lab

MUSC329B **Ensemble; Chamber Singers**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

0101	Allan Laino, Cynthia Bauchspies, Edward Maclary	Seats (Total: 50)	
	MW 3:00pm - 3:50pm	PAC 2201	Lab
	TuTh 3:30pm - 4:20pm	PAC 2201	Lab

MUSC329E **Ensemble; Gospel Choir**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Anne Carswell	Seats (Total: 60)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC329M **Ensemble; Men's Chorus**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Monthly evening rehearsals will be scheduled as announced.

0101	Edward Maclary, Gregory Graf	Seats (Total: 40)	
	MWF 12:00pm - 12:50pm	PAC 1230	Lab

MUSC329W **Ensemble; Women's Chorus**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Monthly evening rehearsals will be scheduled as announced.

0101	Kenneth Elpus	Seats (Total: 60)	
	MWF 12:00pm - 12:50pm	PAC 2201	Lab

MUSC330 **Music History III**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC320; and permission of ARHU-School of Music department.

A historical study of Western music from 1800 to present.

0101	Olga Haldey	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	PAC 2201	
	F 1:00pm - 1:50pm	PAC 3160	Discussion

0102	Olga Haldey MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 25) PAC 2201 PAC 3160	 Discussion
0103	Olga Haldey MW 2:00pm - 2:50pm F 3:00pm - 3:50pm	Seats (Total: 25) PAC 2201 PAC 3160	 Discussion

MUSC369M **Special Topics in Study Abroad III; Masterpieces of Italian Opera**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC379 **Opera Workshop**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Open to music and non-music majors (by audition). Operatic production and performance, performance techniques and coaching, stage direction, set design, costume design and make-up. Repertory will include smaller operatic works, excerpts or scenes.

0101	Andrea McGray MW 4:00pm - 6:00pm	Seats (Total: 15) PAC 2170	 Lab

MUSC386 **Experiential Learning**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Music department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

MUSC388 **Music Internship**

(Perm req)

Credits: 3 Grading Method: Regular

Pre-professional field work in music.

0301	Edward Maclary Contact instructor or department for details.	Seats (Total: 5)

MUSC389 **Music Internship Analysis**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Documentation and evaluation of field work experience.

0101	Lori DeBoy Contact instructor or department for details.	Seats (Total: 5)
0201	Michael Hewitt Contact instructor or department for details.	Seats (Total: 1)

MUSC428 **Repertoire Coaching of Vocal or Chamber Music**

(Perm req)

Credits: 2 Grading Method: Regular

A course for piano students who wish to go further than the work offered in MUSC128, MUSC228 and MUSC328 by becoming specialists in the areas of vocal coaching or chamber music coaching. Elements of pedagogy, conducting and responsible artistic decision-making for the entire musical production.

0101	Rita Sloan Contact instructor or department for details.	Seats (Total: 5)

MUSC438A **Area Studies in Ethnomusicology; Music of Southeast Asia**

(Perm req)

Credits: 3 Grading Method: Regular

Advanced study of musics in selected parts of the world.

0101	John Witzleben Tu 3:30pm - 6:00pm	Seats (Total: 20) PAC 3110A

MUSC443 **Solo Vocal Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC330 and MUSC331; or students who have taken courses with comparable content may contact the department.

The study of solo vocal literature from the Baroque Cantata to the Art Song of the present. The Lied, Melodie, vocal chamber music and the orchestral song are examined.

0101	Diba Alvi	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PAC 2170

MUSC444 **Wind and Percussion Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Corequisite: MUSP420 or MUSP419.

Recital program notes and written projects in wind or percussion literature.

Contact department for information to register for this course.

MUSC446 **String Literature**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSP316; and permission of ARHU-School of Music department.

Recital program notes and written projects in string literature.

Contact department for information to register for this course.

MUSC448 **Selected Topics in Music**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

MUSC448C **Selected Topics in Music; Chamber Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Kenneth Slowik	Seats (Total: 12)
	W 7:00pm - 9:30pm	PAC 3110A

MUSC448K **Selected Topics in Music; Keyboard Skills for Vocalists**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

This course is for graduate vocal majors only.

0101	Rita Sloan	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC448W **Selected Topics in Music; Instrumental Pedagogy**

(Perm req)

Credits: 1

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC450 **Musical Form**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251.

A study of the principles of organization in music with emphasis on eighteenth and nineteenth century European music. Reading and analysis of scores exemplifying the musical forms.

0101	Daniel Zimmerman	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 2164

MUSC451 **Analysis of Music**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC450; or permission of instructor.

A course in the analysis of music. Discussion of individual works, with emphasis on their unique characteristics and on the relation of analysis to performance.

0101	Thomas DeLio	Seats (Total: 15)
	W 5:30pm - 8:00pm	PAC 2164

MUSC453 **Jazz Improvisation I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC251; or students who have taken courses with comparable content may contact the department. And permission of ARHU-School of Music department. Credit only granted for: MUSC345 or MUSC453. Formerly: MUSC345.

Jazz theory, notational conventions, improvisation techniques, reading and analysis of music, and performance in small combo format.

0101	Griffith Kazmierczak	Seats (Total: 8)
	M 7:15pm - 9:50pm	PAC 1208

MUSC455 **Theory of Jazz**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MUSC250; or permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing and articulation, notation, and introductory arranging concepts such as orchestration and form.

0101	Timothy Powell	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	PAC 3168

MUSC469F **Orchestral Excerpts for String Players; Bass**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC469V **Orchestral Excerpts for String Players; Harp**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC483 **Music in the Classic Era**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Survey of western music from 1750 to 1820.

0101	Dianne Goldman	Seats (Total: 12)
	Tu 7:00pm - 9:30pm	PAC 3110A

MUSC490 **Conducting**

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC251.

Vocal and instrumental baton techniques.

0101	Edward Maclary MWF 11:00am - 11:50am	Seats (Total: 13) PAC 2201
0201	Edward Maclary MWF 1:00pm - 1:50pm	Seats (Total: 13) PAC 2201

MUSC492 **Keyboard Music I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

The history and literature of harpsichord and solo piano music from its beginning to the romantic period. Emphasis is placed on those segments of repertory which are encountered in performance and teaching situations at the present time.

0101	Bradford Gowen MW 11:00am - 12:15pm	Seats (Total: 13) PAC 2160

MUSC499 **Independent Studies**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC550 **Theory of Music Graduate Review**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department.

Music theory review for graduate students:aural training, counterpoint, basic diatonic harmony, chromatic harmony, and analysis of complete works.

0101	David Froom	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 2160

MUSC601 **Advanced English Lyric Diction**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic, oratorio and song literature in English: stress patterns, linkage, stressed and non stressed vowels, dipthongs, placement of consonants and vowels, and communication of text with emphasis on current performance practices. Use of the International Phonetic Alphabet (IPA) will be stressed.

0101	Linda Mabbs	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 1218

MUSC604 **Advanced French Lyric Diction**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic and song literature in French: phoneticization, formation and singing of the vowel-sounds, semi-consonants, and consonants; the liaison; legato singing in French; the hiatus, mute and aspirate 'h'; stress and word rhythm. Use of the International Phonetic Alphabet (IPA) will be stressed.

0101	Gran Wilson	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 2200

MUSC605 **Opera Repertory I**

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: MUSC602; or permission of instructor. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Advanced vocal coaching of selections from the Italian, French, German, and English opera repertory: musical accuracy; language facility; diction clarity; and dramatic interpretation.

0101	Dominic Cossa	Seats (Total: 10)
	Th 10:30am - 12:00pm	PAC 1218

MUSC608 **Chamber Music Repertory; Chamber Music Repertoire**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: graduate standing as a major in performance. A study, through performance, of diversified chamber music for standard media.

Contact department for information to register for this course.

MUSC609 **Piano Chamber Music Practicum and Analysis**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Study of repertoire written for piano in duos or with several instruments, to develop an accompanists advanced performance skills in listening, balance, nuance in dynamics, harmonic motion and phrasing.

0101	Rita Sloan	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC611 **Opera Techniques I**

Credits: 2 Grading Method: Regular, Audit

Corequisite: MUSC601. Restriction: Permission of director of opera; and must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles and techniques to operatic repertoire.

0101	Craig Kier	Seats (Total: 10)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC613 **Opera Techniques III**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Minimum grade of B- in MUSC612; and permission of Director of Opera required. Corequisite: MUSC603 and MUSC605. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Continuation of MUSC 612. Techniques for opera performance: Scene Study III; Movement III; and Shakespeare.

0101	Craig Kier	Seats (Total: 10)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC629A **Ensemble; Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	James Ross	Seats (Total: 50)	
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab

MUSC629F **Ensemble; Marching Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Elijah Osterloh	Seats (Total: 175)	
	MWF 3:00pm - 5:00pm	PAC 2540	Lab

MUSC629G **Ensemble; Balinese Gamelan**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	I Suadin	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 1230	Lab

MUSC629H **Ensemble; Harp**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sarah Fuller TuTh 11:00am - 12:15pm	Seats (Total: 1) Location: TBA	Lab

MUSC629J **Ensemble; Jazz Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Christopher Vadala MW 5:30pm - 7:15pm	Seats (Total: 20) PAC 1230	Lab
0201	Christopher Vadala MW 1:00pm - 2:20pm	Seats (Total: 10) PAC 1230	Lab
0301	Christopher Vadala M 7:30pm - 9:30pm	Seats (Total: 10) PAC 1230	Lab

MUSC629K **Ensemble; Japanese Koto**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto Tu 5:30pm - 7:00pm	Seats (Total: 2) PAC 3160	Lab

MUSC629L **Ensemble; Advanced Japanese Koto**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto Tu 7:00pm - 8:30pm	Seats (Total: 4) PAC 3160	Lab

MUSC629P **Ensemble; Percussion Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Lee Hinkle	Seats (Total: 5)	
	W 5:15pm - 7:15pm	PAC 2540	Lab
	F 4:00pm - 6:00pm	PAC 1230	Lab
0201	Eric Shin	Seats (Total: 5)	
	Contact instructor or department for details.		

MUSC629Q **Ensemble; Korean Percussion Ensemble**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sebastian Wang	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 2170	

MUSC629R **Ensemble; Repertoire Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	James Ross	Seats (Total: 10)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC629U **Ensemble; University Band**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition, contact instructor to make arrangements.

0101	Craig Potter	Seats (Total: 10)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC629W **Ensemble; Wind Orchestra**

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition, contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 30)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC629Z **Ensemble; Jazz Combo**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Gerard Kunkel	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Thomas Baldwin	Seats (Total: 10)
	Contact instructor or department for details.	
0301	Jeffrey Reed	Seats (Total: 10)
	Contact instructor or department for details.	
0401	Brendan Schnabel	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC632 **The Anthropology of Music**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUET650 or MUSC632. Formerly: MUET650.

Explores how leading theoretical paradigms in socio-cultural anthropology have been incorporated into and shaped ethnomusicological research.

0101	Fernando Rios	Seats (Total: 12)
	W 3:30pm - 6:00pm	PAC 3110A

MUSC646 **Introduction to Musicology**

Credits: 3 Grading Method: Regular

Prerequisite: Graduate student standing in in the School of Music. Credit only granted for: MUSC648 or MUSC646.

An introduction to the basics of musicological research, including sources, methodologies, and techniques, as well as the fundamentals of both academic and non-academic writing.

0101	Olga Haldey	Seats (Total: 12)	
	TuTh 11:00am - 12:15pm	PAC 3110A	

MUSC648 **Seminar in Music Research; Seminar in Music Research**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An introduction to graduate study in the history and literature of music. Bibliography and methodology of systematic and historical musicology.

0101	Paul Covey	Seats (Total: 15)	
	Tu 7:00pm - 9:45pm	PAC 2515C	
0201	Stephen Thursby	Seats (Total: 15)	
	M 7:00pm - 9:30pm	PAC 2515C	
0301	Nicholas Tochka	Seats (Total: 15)	
	TuTh 9:30am - 10:45am	PAC 2515C	
0401	Daniel Boomhower	Seats (Total: 15)	
	Th 7:00pm - 9:30pm	PAC 2515C	

MUSC649A **Ensemble; University of Maryland Chorale**

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Scot Hanna-Weir	Seats (Total: 10)	
	TuTh 4:30pm - 6:00pm	PAC 2201	Lab

MUSC649B **Ensemble; Chamber Singers**

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted, contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 10)	
	MW 3:00pm - 3:50pm	PAC 2201	Lab
	TuTh 3:30pm - 4:20pm	PAC 2201	Lab

MUSC649E **Ensemble; Ensemble: Gospel Choir**

Credits: 1 Grading Method: Regular

0101	Anne Carswell	Seats (Total: 10)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC649M **Ensemble; Men's Chorus**

Credits: 1 Grading Method: Regular

0101	Dustin Francis	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 1230	Lab

MUSC649W **Ensemble; Women's Chorus**

Credits: 1 Grading Method: Regular

0101	Kenneth Elpus	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 2201	Lab

MUSC651 **The Theories of Heinrich Schenker**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC450; or permission of ARHU-School of Music department.

The analytical methods of Heinrich Schenker with application of those theories to musical literature from the Baroque, Classical and Romantic periods.

0101	Thomas DeLio	Seats (Total: 10)	
	W 2:00pm - 4:30pm	PAC 2164	

MUSC655 **Theory of Jazz**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC655 ir MUSC699J. Formerly: MUSC699J.

Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing, articulation, notation and orchestration.

0101	Timothy Powell	Seats (Total: 4)
	TuTh 3:30pm - 4:45pm	PAC 3168

MUSC659 **Seminar in Repertoire and Pedagogy**

(Perm req)

Credits: 2-3 Grading Method: Regular, Audit

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Edward Maclary	Seats (Total: 6)
	MW 10:00am - 10:50am	PAC 3164
0201	Michael Votta	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC669F **Orchestral Excerpts for String Players; Bass**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC669V **Orchestral Excerpts for String Players; Harp**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC670 **Advanced Analytical Techniques I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC451; or permission of ARHU-School of Music department.

Analysis of representative masterpieces of the eighteenth and early nineteenth centuries.

0101	James Fry	Seats (Total: 12)
	TuTh 11:00am - 12:15pm	PAC 3160

MUSC679P **Seminar in Ethnomusicology; The Study of Popular Music**

Credits: 3 Grading Method: Regular

Seminar topics address current issues, including gender, the social economy of music, ethnography of performance, etc.

0101	John Witzleben	Seats (Total: 12)
	Th 3:30pm - 6:00pm	PAC 3110A

MUSC689 **Advanced Conducting**

(Perm req)

Credits: 3 Grading Method: Regular

A concentrated study of the conducting techniques involved in the repertoire of all historical periods.

0101	James Ross	Seats (Total: 10)
	M 1:00pm - 2:30pm	PAC 2160
	Th 12:30pm - 1:30pm	PAC 2160

MUSC699 **Selected Topics in Music**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC699A **Selected Topics in Music; Readings in American Music**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

By permission of the Department.

0101	Patrick Warfield	Seats (Total: 12)
	M 6:00pm - 8:30pm	PAC 3110A

MUSC699C **Selected Topics in Music; Chamber Music Literature**

Credits: 3 Grading Method: Regular, Audit

0101	Kenneth Slowik	Seats (Total: 12)
	W 7:00pm - 9:30pm	PAC 3110A

MUSC699D **Selected Topics in Music; Diction for Pianist**

Credits: 2 Grading Method: Regular, Audit

0101	Robert McReynolds	Seats (Total: 8)
	Contact instructor or department for details.	

MUSC699W **Selected Topics in Music; Instrumental Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSC757 **Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ARHU-School of Music department.

Advanced musicianship skills necessary for conductors.

0101	Michael Votta	Seats (Total: 5)
	Tu 12:30pm - 1:30pm	PAC 2126
	W 1:00pm - 1:50pm	PAC 2126

MUSC758 **Advanced Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular

Continuation of MUSC757, advanced aural skills necessary for conductors.

0101	Michael Votta	Seats (Total: 5)
	W 1:00pm - 2:15pm	PAC 2126

MUSC799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MUSC800A **Advanced Seminar in Music Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Rita Sloan	Seats (Total: 10)
	Th 10:00am - 12:00pm	PAC 2126
	Contact instructor or department for details.	

MUSC800P **Advanced Seminar in Music Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Cleveland Page	Seats (Total: 15)
	W 2:30pm - 5:00pm	PAC 2126

MUSC800V **Advanced Seminar in Music Pedagogy**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Martha Randall	Seats (Total: 15)	
	W 3:00pm - 5:30pm	PAC 3164	Lab

MUSC801W **Advanced Seminar in Music Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

Contact department for information to register for this course.

MUSC802A **Advanced Seminar in Music Pedagogy III**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC801. Restriction: Permission of ARHU-School of Music department.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument.

0101	Robert McReynolds	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC811 **Doctoral Opera Techniques**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC611 or MUSC811.

Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles, techniques to operat e repertoire, and methodology seminar.

0101	Craig Kier	Seats (Total: 5)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC813 **Doctoral Opera Techniques III**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Prerequisite: MUSC812; and permission of ARHU-School of Music department. Credit only granted for: MUSC613 and MUSC813.

Continuation of MUSC812. Techniques for opera performance: Scene Study III; Movement III; Acting III Shakespeare; Dance I; Stage Combat II; Stage Combat II; and methodology seminar.

0101	Craig Kier	Seats (Total: 5)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC830C **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

For conducting majors.

0201	James Ross	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC830S **Doctoral Seminar in Music Literature**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Kenneth Slowik	Seats (Total: 15)
	M 9:00am - 12:00pm	PAC 2126

MUSC830W **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0201	Mark Hill Contact instructor or department for details.	Seats (Total: 10)
0301	David Jones Contact instructor or department for details.	Seats (Total: 10)
0401	Susan Heineman Contact instructor or department for details.	Seats (Total: 10)
0501	Timothy Powell Contact instructor or department for details.	Seats (Total: 10)
0601	Gregory Miller Contact instructor or department for details.	Seats (Total: 10)
0701	Paul Gekker Contact instructor or department for details.	Seats (Total: 10)
0801	Matthew Guilford Contact instructor or department for details.	Seats (Total: 10)
0901	David Fedderly Contact instructor or department for details.	Seats (Total: 10)
1001	Paul Kellner Contact instructor or department for details.	Seats (Total: 10)
1101	Frank Ames Contact instructor or department for details.	Seats (Total: 10)

MUSC831A **Doctoral Seminar in Music Literature**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

0101	Rita Sloan	Seats (Total: 5)
	TBA	PAC 2126

MUSC831C **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

0201	James Ross	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC831W **Doctoral Seminar in Music Literature**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

Contact department for information to register for this course.

MUSC832A **Doctoral Seminar in Music Literature**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC831. Restriction: Permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music.

0101	Rita Sloan	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MUSC899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MUSP Music Performance Fall 2015

MUSP102A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102B **Music Performance; Voice**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102D **Music Performance; Viola**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102E **Music Performance; Cello**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102F **Music Performance; Bass**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP102T **Music Performance; Composition**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP103A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP103S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109J **Music Performance; Bassoon**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109K **Music Performance; Saxophone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109N **Music Performance; Trombone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109O **Music Performance; Tuba**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP109V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110N **Music Performance; Trombone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110O **Music Performance; Tuba**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110P **Music Performance; Euphonium**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110Q **Music Performance; Percussion**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110S **Music Performance; Guitar**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP110V **Music Performance; Harp**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119B **Music Performance; Voice**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119C **Music Performance; Violin**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP119M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119S **Music Performance; Guitar**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP119T **Music Performance; Composition**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP119V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP119W **Music Performance; Electronic Composition**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120Q **Music Performance; Percussion**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120T **Music Performance; Composition**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120V **Music Performance; Harp**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP120W **Music Performance; Electronic Composition**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202B **Music Performance; Voice**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202C **Music Performance; Violin**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202D **Music Performance; Viola**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202E **Music Performance; Cello**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP202S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203E **Music Performance; Cello**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203F **Music Performance; Bass**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203J **Music Performance; Bassoon**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203K **Music Performance; Saxophone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP203V **Music Performance**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP207A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207N **Music Performance; Trombone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207O **Music Performance; Tuba**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207P **Music Performance; Euphonium**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207Q **Music Performance; Percussion**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207S **Music Performance; Guitar**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP207V **Music Performance; Harp**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP208V **Music Performance; Harp**

(Perm req)

Credits: 2-4 Grading Method: Regular

Contact department for information to register for this course.

MUSP217A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217B **Music Performance; Voice**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217C **Music Performance; Violin**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217D **Music Performance; Viola**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217E **Music Performance; Cello**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217F **Music Performance; Bass**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217S **Music Performance; Guitar**

(Perm req)

Credits: 2-4 Grading Method: Regular

Contact department for information to register for this course.

MUSP217T **Music Performance; Composition**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP217W **Music Performance; Electronic Composition**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218F **Music Performance; Bass**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218J **Music Performance; Bassoon**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218K **Music Performance; Saxophone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218N **Music Performance; Trombone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218T **Music Performance; Composition**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP218W **Music Performance; Electronic Composition**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP302K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302N **Music Performance; Trombone**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302O **Music Performance; Tuba**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302P **Music Performance; Euphonium**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302Q **Music Performance; Percussion**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302S **Music Performance; Guitar**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP302V **Music Performance; Harp**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP303V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP305A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305O **Music Performance; Tuba**

(Perm req)

Credits: 2-4 Grading Method: Regular

Contact department for information to register for this course.

MUSP305P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP305V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

MUSP306J **Music Performance; Bassoon**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306K **Music Performance; Saxophone**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306N **Music Performance; Trombone**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306O **Music Performance; Tuba**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306P **Music Performance; Euphonium**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306Q **Music Performance; Percussion**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306S **Music Performance; Guitar**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP306V **Music Performance; Harp**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315A **Music Performance; Piano**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315B **Music Performance; Voice**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315C **Music Performance; Violin**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315D **Music Performance; Viola**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315E **Music Performance; Cello**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315F **Music Performance; Bass**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315G **Music Performance; Flute**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315H **Music Performance; Oboe**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315I **Music Performance; Clarinet**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315J **Music Performance; Bassoon**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315K **Music Performance; Saxophone**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315L **Music Performance; Horn**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315M **Music Performance; Trumpet**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315N **Music Performance; Trombone**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315O **Music Performance; Tuba**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315P **Music Performance; Euphonium**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315Q **Music Performance; Percussion**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315S **Music Performance; Guitar**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315T **Music Performance; Composition**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315V **Music Performance; Harp**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP315W **Music Performance; Electronic Composition**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316A **Music Performance; Piano**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316B **Music Performance; Voice**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316C **Music Performance; Violin**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316D **Music Performance; Viola**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316E **Music Performance; Cello**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316F **Music Performance; Bass**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316G **Music Performance; Flute**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316H **Music Performance; Oboe**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316I **Music Performance; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316J **Music Performance; Bassoon**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316K **Music Performance; Saxophone**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316L **Music Performance; Horn**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316M **Music Performance; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316N **Music Performance; Trombone**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316O **Music Performance; Tuba**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316P **Music Performance; Euphonium**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316Q **Music Performance; Percussion**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316T **Music Performance; Composition**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316V **Music Performance; Harp**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP316W **Music Performance; Electronic Composition**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP402A **Music Performance; Piano**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP402S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP403S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course, in the minor series.

Contact department for information to register for this course.

MUSP409A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP409V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series.

Contact department for information to register for this course.

MUSP410A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP410V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the principal series. Recital required.

Contact department for information to register for this course.

MUSP419A **Music Performance; Piano**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419B **Music Performance; Voice**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419C **Music Performance; Violin**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419D **Music Performance; Viola**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419E **Music Performance; Cello**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419F **Music Performance; Bass**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419G **Music Performance; Flute**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419H **Music Performance; Oboe**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419I **Music Performance; Clarinet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419J **Music Performance; Bassoon**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419K **Music Performance; Saxophone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419L **Music Performance; Horn**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419M **Music Performance; Trumpet**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419N **Music Performance; Trombone**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419O **Music Performance; Tuba**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419P **Music Performance; Euphonium**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419Q **Music Performance; Percussion**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419S **Music Performance; Guitar**

(Perm req)

Credits: 2 Grading Method: Regular

Senior course in the major series.

Contact department for information to register for this course.

MUSP419T **Music Performance; Composition**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419V **Music Performance; Harp**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP419W **Music Performance; Electronic Composition**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Senior course in the major series.

Contact department for information to register for this course.

MUSP420A **Senior Recital; Senior Recital**

(Perm req)

Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420B **Senior Recital; Senior Recital**

(Perm req)

Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420C **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420D **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420E **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420F **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420G **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420H **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420I **Senior Recital; Senior Recital**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420J **Senior Recital; Senior Recital**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420K **Senior Recital; Senior Recital**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420L **Senior Recital; Senior Recital**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420M **Senior Recital; Senior Recital**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420N **Senior Recital; Senior Recital**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420O **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420P **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420Q **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420T **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420V **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP420W **Senior Recital; Senior Recital**

(Perm req) Credits: 4 Grading Method: Regular, Audit General Education: DSSP

Senior course in the major series. Recital required.

Contact department for information to register for this course.

MUSP609A **Interpretation and Repertoire; Piano**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609B **Interpretation and Repertoire; Voice**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609C **Interpretation and Repertoire; Violin**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609D **Interpretation and Repertoire; Viola**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609E **Interpretation and Repertoire; Cello**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609F **Interpretation and Repertoire; Bass**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609G **Interpretation and Repertoire; Flute**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609H **Interpretation and Repertoire; Oboe**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609I **Interpretation and Repertoire; Clarinet**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609J **Interpretation and Repertoire; Bassoon**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609K **Interpretation and Repertoire; Saxophone**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609L **Interpretation and Repertoire; Horn**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609M **Interpretation and Repertoire; Trumpet**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609N **Interpretation and Repertoire; Trombone**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609O **Interpretation and Repertoire; Tuba**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609P **Interpretation and Repertoire; Euphonium**

(Perm req) Credits: 2 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609Q **Interpretation and Repertoire; Percussion**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609S **Interpretation and Repertoire; World Instruments**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609T **Interpretation and Repertoire; Composition**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609U **Interpretation and Repertoire; Conducting**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609V **Interpretation and Repertoire; Harp**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP609X **Interpretation and Repertoire; Historical Instruments - Keyboard**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610A **Graduate Music Performance; Piano**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610B **Graduate Music Performance; Voice**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610C **Graduate Music Performance; Violin**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610D **Graduate Music Performance; Viola**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610E **Graduate Music Performance; Cello**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610F **Graduate Music Performance; Bass**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610G **Graduate Music Performance; Flute**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610H **Graduate Music Performance; Oboe**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610I **Graduate Music Performance; Clarinet**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610J **Graduate Music Performance; Bassoon**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610K **Graduate Music Performance; Saxophone**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610L **Graduate Music Performance; Horn**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610M **Graduate Music Performance; Trumpet**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610N **Graduate Music Performance; Trombone**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610O **Graduate Music Performance; Tuba**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610P **Graduate Music Performance; Euphonium**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610Q **Graduate Music Performance; Percussion**

(Perm req) Credits: 4 Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610S **Graduate Music Performance; Guitar**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610T **Graduate Music Performance; Composition**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610U **Graduate Music Performance; Conducting**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610V **Graduate Music Performance; Harp**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP610X **Graduate Music Performance; Historical Instruments - Keyboard**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Contact department for information to register for this course.

MUSP619A **Interpretation and Repertoire; Piano**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619B **Interpretation and Repertoire; Voice**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619C **Interpretation and Repertoire; Violin**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619D **Interpretation and Repertoire; Viola**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619E **Interpretation and Repertoire; Cello**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619F **Interpretation and Repertoire; Bass**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619G **Interpretation and Repertoire; Flute**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619H **Interpretation and Repertoire; Oboe**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619I **Interpretation and Repertoire; Clarinet**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619J **Interpretation and Repertoire; Bassoon**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619K **Interpretation and Repertoire; Saxophone**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619L **Interpretation and Repertoire; Horn**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619M **Interpretation and Repertoire; Trumpet**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619N **Interpretation and Repertoire; Trombone**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619O **Interpretation and Repertoire; Tuba**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619P **Interpretation and Repertoire; Euphonium**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619Q **Interpretation and Repertoire; Percussion**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619S **Interpretation and Repertoire; Guitar**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619T **Interpretation and Repertoire; Composition**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619U **Interpretation and Repertoire; Conducting**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619V **Interpretation and Repertoire; Harp**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619W **Interpretation and Repertoire; Electronic Composition**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP619X **Interpretation and Repertoire; Opera**

(Perm req)

Credits: 2-4 Grading Method: Regular

Prerequisite: departmental audition and permission of Department Chairman. Repeatable to a maximum of 12 credits.

0101	Carmen Balthrop	Seats (Total: 5)	
	Tu 12:30pm - 1:45pm	Location: TBA	Lab

0401	Linda Mabbs Tu 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA	Lab
0501	Martha Randall Tu 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA	Lab
0601	Delores Ziegler Tu 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA	Lab
0701	Dominic Cossa Tu 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA	Lab
1001	Gran Wilson Tu 12:30pm - 1:45pm	Seats (Total: 5) Location: TBA	Lab

MUSP620A **Graduate Music Performance; Piano**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620B **Graduate Music Performance; Voice**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620C **Graduate Music Performance; Violin**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620D **Graduate Music Performance; Viola**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620E **Graduate Music Performance; Cello**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620F **Graduate Music Performance; Bass**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620G **Graduate Music Performance; Flute**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620H **Graduate Music Performance; Oboe**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620I **Graduate Music Performance; Clarinet**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620J **Graduate Music Performance; Bassoon**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620K **Graduate Music Performance; Saxophone**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620L **Graduate Music Performance; Horn**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620M **Graduate Music Performance; Trumpet**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620N **Graduate Music Performance; Trombone**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620O **Graduate Music Performance; Tuba**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620P **Graduate Music Performance; Euphonium**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620Q **Graduate Music Performance; Percussion**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620S **Graduate Music Performance; Guitar**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620T **Graduate Music Performance; Composition**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620U **Graduate Music Performance; Conducting**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620V **Graduate Music Performance; Harp**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620W **Graduate Music Performance; Electronic Composition**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

Contact department for information to register for this course.

MUSP620X **Graduate Music Performance; Opera**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: MUSP 619 and permission of Department Chairman. Recital course in the major series.

0101	Carmen Balthrop Contact instructor or department for details.	Seats (Total: 5)
0401	Linda Mabbs Contact instructor or department for details.	Seats (Total: 5)
0501	Martha Randall Contact instructor or department for details.	Seats (Total: 5)
0601	Delores Ziegler Contact instructor or department for details.	Seats (Total: 5)
0701	Dominic Cossa Contact instructor or department for details.	Seats (Total: 5)
1001	Gran Wilson Contact instructor or department for details.	Seats (Total: 5)

MUSP621A **Interpretation, Repertoire, and Performance**

(Perm req)

Credits: 2-4 Grading Method: Regular

Prerequisite: MUSP619. Corequisite: MUSC758. Restriction: Permission of ARHU-School of Music department.

Private music instruction in preparation for public performance.

0701	Rita Sloan Contact instructor or department for details.	Seats (Total: 5)

MUSP679 **Practicum**

(Perm req)

Credits: 1 Grading Method: Regular

Private individual instruction on a secondary instrument.

Contact department for information to register for this course.

MUSP719A **Interpretation and Repertoire; Piano**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719B **Interpretation and Repertoire; Voice**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719C **Interpretation and Repertoire; Violin**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719D **Interpretation and Repertoire; Viola**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719E **Interpretation and Repertoire; Cello**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719F **Interpretation and Repertoire; Bass**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719G **Interpretation and Repertoire; Flute**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719H **Interpretation and Repertoire; Oboe**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719I **Interpretation and Repertoire; Clarinet**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719J **Interpretation and Repertoire; Bassoon**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719K **Interpretation and Repertoire; Saxophone**

(Perm req)

Credits: 2-4

Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719L **Interpretation and Repertoire; Horn**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719M **Interpretation and Repertoire; Trumpet**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719N **Interpretation and Repertoire; Trombone**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719O **Interpretation and Repertoire; Tuba**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719P **Interpretation and Repertoire; Euphonium**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719Q **Interpretation and Repertoire; Percussion**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719T **Interpretation and Repertoire; Composition**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719U **Interpretation and Repertoire; Conducting**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719V **Interpretation and Repertoire**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP719W **Interpretation and Repertoire; Electronic Composition**

(Perm req)

Credits: 2-4 Grading Method: Regular, Audit

Prerequisite: departmental audition, admission to doctoral program in the major series and permission of department chairman. Repeatable to a maximum of 12 credits.

Contact department for information to register for this course.

MUSP815A **Interpretation, Performance, and Pedagogy; Piano**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815B **Interpretation, Performance, and Pedagogy; Voice**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815C **Interpretation, Performance, and Pedagogy; Violin**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815D **Interpretation, Performance, and Pedagogy; Viola**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815E **Interpretation, Performance, and Pedagogy; Cello**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815F **Interpretation, Performance, and Pedagogy; Bass**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815G **Interpretation, Performance, and Pedagogy; Flute**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815H **Interpretation, Performance, and Pedagogy; Oboe**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815I **Interpretation, Performance, and Pedagogy; Clarinet**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815J **Interpretation, Performance, and Pedagogy; Bassoon**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815K **Interpretation, Performance, and Pedagogy; Saxophone**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815L **Interpretation, Performance, and Pedagogy; Horn**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815M **Interpretation, Performance, and Pedagogy; Trumpet**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815N **Interpretation, Performance, and Pedagogy; Trombone**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815O **Interpretation, Performance, and Pedagogy; Tuba**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815P **Interpretation, Performance, and Pedagogy; Euphonium**

(Perm req)

Credits: 4 Grading Method: Regular

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815Q **Interpretation, Performance, and Pedagogy; Percussion**

(Perm req)

Credits: 4 Grading Method: Regular

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815T **Interpretation, Performance, and Pedagogy; Composition**

(Perm req)

Credits: 4 Grading Method: Regular

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815U **Interpretation, Performance, and Pedagogy; Conducting**

(Perm req)

Credits: 4 Grading Method: Regular

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP815W **Interpretation, Performance, and Pedagogy; Electronic Composition**

(Perm req)

Credits: 4 Grading Method: Regular

A seminar in pedagogy and the pedagogical literature for the doctoral performer, with advanced instruction at the instrument, covering appropriate compositions. Required of all candidates for the D.M.A. Degree in literature-performance. Prerequisite: doctoral standing in performance and permission of department chairman. Recital course.

Contact department for information to register for this course.

MUSP816A **Interpretation, Performance, and Pedagogy; Piano**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816B **Interpretation, Performance, and Pedagogy; Voice**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816C **Interpretation, Performance, and Pedagogy; Violin**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816D **Interpretation, Performance, and Pedagogy; Viola**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816E **Interpretation, Performance, and Pedagogy; Cello**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816F **Interpretation, Performance, and Pedagogy; Bass**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816G **Interpretation, Performance, and Pedagogy; Flute**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816H **Interpretation, Performance, and Pedagogy; Oboe**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816I **Interpretation, Performance, and Pedagogy; Clarinet**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816J **Interpretation, Performance, and Pedagogy; Bassoon**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816K **Interpretation, Performance, and Pedagogy; Saxophone**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816L **Interpretation, Performance, and Pedagogy; Horn**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816M **Interpretation, Performance, and Pedagogy; Trumpet**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816N **Interpretation, Performance, and Pedagogy; Trombone**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816O **Interpretation, Performance, and Pedagogy; Tuba**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816P **Interpretation, Performance, and Pedagogy; Euphonium**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816Q **Interpretation, Performance, and Pedagogy; Percussion**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816T **Interpretation, Performance, and Pedagogy; Composition**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816U **Interpretation, Performance, and Pedagogy; Conducting**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816V **Interpretation, Performance, and Pedagogy; Harp**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP816W **Interpretation, Performance, and Pedagogy; Electronic Composition**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 815 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817A **Interpretation, Performance, and Pedagogy; Piano**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817B **Interpretation, Performance, and Pedagogy; Voice**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817C **Interpretation, Performance, and Pedagogy; Violin**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817D **Interpretation, Performance, and Pedagogy; Viola**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817E **Interpretation, Performance, and Pedagogy; Cello**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817F **Interpretation, Performance, and Pedagogy; Bass**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817G **Interpretation, Performance, and Pedagogy; Flute**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817H **Interpretation, Performance, and Pedagogy; Oboe**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817I **Interpretation, Performance, and Pedagogy; Clarinet**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817J **Interpretation, Performance, and Pedagogy; Bassoon**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817K **Interpretation, Performance, and Pedagogy; Saxophone**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817L **Interpretation, Performance, and Pedagogy; Horn**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817M **Interpretation, Performance, and Pedagogy; Trumpet**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817N **Interpretation, Performance, and Pedagogy; Trombone**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817O **Interpretation, Performance, and Pedagogy; Tuba**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817P **Interpretation, Performance, and Pedagogy; Euphonium**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817Q **Interpretation, Performance, and Pedagogy; Percussion**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817T **Interpretation, Performance, and Pedagogy; Composition**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817U **Interpretation, Performance, and Pedagogy; Conducting**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP817W **Interpretation, Performance, and Pedagogy; Electronic Composition**

(Perm req)

Credits: 4 Grading Method: Regular

Recital course. Prerequisite: MUSP 816 and permission of Department Chairman.

Contact department for information to register for this course.

MUSP898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MUSP899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

NACS Neuroscience & Cognitive Science Fall 2015

NACS608 **Neuroscience and Cognitive Science Seminar**

Credits: 1 Grading Method: Regular

Special seminar topics in Neuroscience and Cognitive Science.

0101	Ricardo Araneda	Seats (Total: 20)
	F 10:15am - 11:15am	BRB 1103

NACS640 **Foundational Readings Seminar**

(Perm req)

Credits: 2 Grading Method: Regular

Credit only granted for: NACS640 or NACS728R. Formerly: NACS728R.

An introduction to the breadth of research in Neuroscience and Cognitive Science. Faculty will present papers to provide historical context and introduction to important issues in the fields of their research.

0101	Quentin Gaudry, Daniel Butts	Seats (Total: 12)
	Tu 1:00pm - 3:00pm	BPS 1230

NACS641 **Introduction to Neurosciences**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Detailed examination of neurophysiology and sensorimotor systems.

0101	Jens Herberholz	Seats (Total: 15)
	MW 3:00pm - 4:45pm	BPS 0283

NACS643 **Computational Neuroscience**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Prerequisite: NACS641; and must have completed a course in calculus; and permission of instructor.

Provides a mathematical foundation in computational neuroscience.

0101	Daniel Butts	Seats (Total: 20)
	MW 12:00pm - 1:50pm	BPS 1234

NACS645 **Cognitive Science**

Credits: 4

Grading Method: Regular, Audit

Credit only granted for: NACS645 or NACS728Y. Formerly: NACS728Y.

A study of mental representations and computations. Issues examined include computation, representations, decisions, modularity, evolution, innateness, and reductionism.

0101	William Idsardi	Seats (Total: 25)
	TuTh 10:00am - 12:00pm	HBK 0105

NACS728E **Selected Topics in Neuroscience and Cognitive Science; Evolution of the Forebrain**

Credits: 3

Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

This seminar takes a comparative approach to the organization and functions of important forebrain systems including the cerebral cortex (and its counterparts in non-mammals), the basal ganglia and limbic system, addressing the question of how new structures in the nervous system have evolved.

0101	Steven Brauth	Seats (Total: 15)
	F 1:00pm - 3:30pm	BPS 1103

NACS728F **Selected Topics in Neuroscience and Cognitive Science; Introduction to Functional Magnetic Resonance Imaging**

Credits: 3

Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Luiz Pessoa	Seats (Total: 18)
	TuTh 11:00am - 12:15pm	BPS 1232

NACS728G **Selected Topics in Neuroscience and Cognitive Science; Early Social Cognition**

Credits: 3 Grading Method: Regular, Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

Also offered as PSYC789R. Credit granted for NACS728G or PSYC789R. This graduate seminar explores the foundations of social cognition and behavior, from birth through the first few years of life. Topics will include representations of intentional agents and their behavior, social evaluations of other people, early communication, prosocial motivations, and sensitivity to social norms. The emphasis will be on empirical studies with young children, but we will also draw from work with adults and other species. If you are interested in this course but are unable to participate at the listed time, please contact the instructor.

0101	Jonathan Beier	Seats (Total: 20)
	Th 12:20pm - 2:50pm	JMZ 1120

NACS728J **Selected Topics in Neuroscience and Cognitive Science; Biology of Chemosensory Systems**

Credits: 3 Grading Method: Regular

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Ricardo Araneda	Seats (Total: 10)
	MW 2:00pm - 3:15pm	BPS 1230

NACS798 **Master's Non-Thesis Research**

Credits: 1-3 Grading Method: Regular

Individual research course for NACS non-thesis MS degree

Contact department for information to register for this course.

NACS799 **Master's Thesis Research**

Credits: 1-3 Grading Method: Regular

Individualized research course for NACS thesis MS degree

Contact department for information to register for this course.

NACS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

NACS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Indivdual instruction course: contact department or instructor to obtai section number

Contact department for information to register for this course.

NFSC Nutrition and Food Science Fall 2015

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

NFSC100 **Elements of Nutrition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

0101	Seong-Ho Lee MW 1:00pm - 1:50pm Th 8:30am - 9:20am	Seats (Total: 25) TYD 0130 SKN 1112	Discussion
0103	Seong-Ho Lee MW 1:00pm - 1:50pm W 11:00am - 11:50am	Seats (Total: 25) TYD 0130 PLS 1115	Discussion
0104	Seong-Ho Lee MW 1:00pm - 1:50pm Th 12:30pm - 1:20pm	Seats (Total: 25) TYD 0130 EDU 1107	Discussion
0105	Seong-Ho Lee MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 SQH 1107	Discussion

0106	Seong-Ho Lee MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 SPH 0305	Discussion
0107	Seong-Ho Lee MW 1:00pm - 1:50pm W 10:00am - 10:50am	Seats (Total: 25) TYD 0130 SQH 1123	Discussion
0108	Seong-Ho Lee MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 BPS 0283	Discussion
0109	Seong-Ho Lee MW 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 HBK 1112	Discussion
0111	Seong-Ho Lee MW 1:00pm - 1:50pm Tu 12:30pm - 1:20pm *Recommended for NFSC majors only.*	Seats (Total: 25) TYD 0130 EGR 0135	Discussion
0112	Seong-Ho Lee MW 1:00pm - 1:50pm W 3:00pm - 3:50pm	Seats (Total: 25) TYD 0130 SQH 1123	Discussion
0113	Seong-Ho Lee MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 PLS 1146	Discussion
0114	Seong-Ho Lee MW 1:00pm - 1:50pm Th 11:00am - 11:50am	Seats (Total: 25) TYD 0130 BPS 1228	Discussion
0116	Seong-Ho Lee MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 0130 PLS 1146	Discussion

FC01	Thomas Castonguay, Shaik Rahaman, Seong-Ho Lee, Nadine Sahyoun MW 4:30pm - 5:20pm F 11:30am - 12:20pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) SKN 0104 BPS 1234	Discussion
FC02	Nadine Sahyoun, Shaik Rahaman, Seong-Ho Lee, Thomas Castonguay MW 4:30pm - 5:20pm F 1:00pm - 1:50pm *Restricted to students in Freshmen Connection.*	Seats (Total: 22) SKN 0104 PLS 1146	Discussion

NFSC100H **Elements of Nutrition**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

For general honors students only.

0101	Seong-Ho Lee MW 1:00pm - 1:50pm Tu 3:00pm - 3:50pm	Seats (Total: 12) TYD 0130 TYD 0117	Discussion

NFSC112 **Food: Science and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: LS | General Education: DSNS

Introduction to the realm of food science, food technology and food processing. An overview of the largest industry in the U.S. with emphasis on the science of food and the technology of food preservation from harvest through processing and packaging to distribution and consumer utilization.

0101	Qin Wang, Abani Pradhan MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 30) SHM 2102 JMP 2202	Discussion
0102	Qin Wang, Abani Pradhan MW 10:00am - 10:50am Th 4:00pm - 4:50pm	Seats (Total: 30) SHM 2102 ASY 3215	Discussion

0103	Qin Wang, Abani Pradhan MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 30) SHM 2102 HBK 0123	Discussion
0104	Qin Wang, Abani Pradhan MW 10:00am - 10:50am F 3:00pm - 3:50pm	Seats (Total: 30) SHM 2102 ASY 3215	Discussion
0105	Abani Pradhan, Qin Wang MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 30) SHM 2102 SPH 1302	Discussion
0106	Abani Pradhan, Qin Wang MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 30) SHM 2102 HBK 0123	Discussion
FC01	Abani Pradhan, Qin Wang MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 27) WDS 0104	

NFSC350 **Foodservice Operations**

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: BSCI223 and BMGT364; and permission of AGNR-Nutrition and Food Science department. Restriction: Must be in Nutrition and Food Science: Dietetics program.

Introduction to management. Responsibilities in quantity food productio and purchasing in a foodservice operation. Laboratory experience in planning, preparation, and service of meals which meet the nutritional needs of the consumer.

0101	Margaret Udahogora, Melissa Roberts TuTh 4:00pm - 5:15pm Tu 8:00am - 1:30pm	Seats (Total: 9) SKN 0104 MMH 3108	Lab
0102	Melissa Roberts, Margaret Udahogora TuTh 4:00pm - 5:15pm Th 8:00am - 1:30pm	Seats (Total: 9) SKN 0104 MMH 3108	Lab
0103	Melissa Roberts, Margaret Udahogora TuTh 4:00pm - 5:15pm Tu 8:00am - 1:30pm	Seats (Total: 9) SKN 0104 MMH 3401	Lab

0104	Melissa Roberts, Margaret Udahogora TuTh 4:00pm - 5:15pm Th 8:00am - 1:30pm	Seats (Total: 9) SKN 0104 MMH 3401	 Lab

NFSC380 **Methods of Nutritional Assessment**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: NFSC315 and BCHM461; and permission of AGNR-Nutrition and Food Science department. Restriction: Must be in Nutrition and Food Science: Food Science program.

Methods of assessing human nutritional status of populations and individuals. These methods include dietary, anthropometric, clinical evaluations and biochemical measurements.

0101	Margaret Udahogora MW 1:00pm - 1:50pm M 2:00pm - 5:00pm	Seats (Total: 15) SKN 0104 SKN 0101	 Lab
0102	Margaret Udahogora MW 1:00pm - 1:50pm W 2:00pm - 5:00pm	Seats (Total: 15) SKN 0104 SKN 0101	 Lab

NFSC386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Nutrition and Food Science department. Restriction: Junior standing or higher. Formerly: FDSC386 and NUTR386.

Contact department for information to register for this course.

NFSC388 **Honors Thesis Research**

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

1301	Qin Wang Contact instructor or department for details.	Seats (Total: 10)

NFSC399 **Special Problems in Food Science**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Designed for advanced undergraduates. Specific problems in food science will be assigned.

Contact department for information to register for this course.

NFSC421 **Food Chemistry**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BCHM461.

Basic chemical and physical concepts are applied to the composition and properties of foods. Emphasis on the relationship of processing technology to the keeping quality, nutritional value, and acceptability of foods.

0101	Liangli Yu	Seats (Total: 60)
	MW 12:30pm - 1:45pm	LEF 2166

NFSC422 **Food Product Research and Development**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

CORE: CS

General Education: DSNL, DSSP

Restriction: Senior standing; and must be in a major within AGNR-Nutrition and Food Science department; and permission of AGNR-Nutrition and Food Science department. Formerly: FDSC422.

A capstone course for FDSC majors. A study of the research and development of new food products. Application of food technology, engineering, safety and packaging are integrated by teams of students to develop a new food product from concept to pilot plant scale-up. Students will travel to nearby food processing plants on two to four Saturdays during the semester.

0101	Qin Wang	Seats (Total: 15)	
	W 2:00pm - 2:50pm	PLS 1162	
	F 1:00pm - 5:00pm	MMH 3401	Lab

NFSC423 **Food Chemistry Laboratory**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL, DSSP

Prerequisite: Must have completed or be concurrently enrolled in NFSC421.

Analysis of the major and minor constituents of food using chemical, physical and instrumental methods in concordance with current food industry and regulatory practices. Laboratory exercises coincide with lecture subjects in NFSC421.

0101	Liangli Yu	Seats (Total: 15)	
	W 8:30am - 9:20am	MMH 3419	
	W 9:30am - 12:20pm	MMH 3419	Lab

NFSC425 **International Nutrition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one course in basic nutrition.

Nutritional status of world population; consequences of malnutrition on health and mental development; and local, national, and international programs for nutritional improvement.

0101	Robert Jackson	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	PLS 1115

NFSC440 **Advanced Human Nutrition**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: BCHM462, BSCI440, and NFSC100; and permission of AGNR-Nutrition and Food Science department.

A critical study of physiologic, molecular and metabolic influences on utilization of carbohydrates, lipids, proteins, vitamins, macro-and micro- minerals, and nonnutritive components of food. Interactions of these nutrients and food components will be examined relative to maintaining health.

Also offered as NFSC678R.

0101	David Lei	Seats (Total: 75)
	TuTh 2:00pm - 3:40pm	PLS 1140

NFSC490 **Special Problems in Nutrition**

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC498 **Selected Topics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498A **Selected Topics; Individual Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498F **Selected Topics; Current Topics in Nutrition and Chronic Disease**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Prerequisite: NFSC100 or comparable course, or by permission of the instructor. Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman	Seats (Total: 20)
	M 2:15pm - 5:00pm	MMH 3112

NFSC605 **Food-Related Behavior of the Individual**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of AGNR-Nutrition and Food Science department. Formerly: FOOD670.

Examination of the factors that influence food-related behavior and of the research methods used.

0101	Thomas Castonguay	Seats (Total: 20)
	W 4:00pm - 6:45pm	MMH 3112

NFSC620 **Diet and Cancer Prevention**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: NFSC440; or permission of instructor. Credit only granted for: NFSC620 or NFSC679D. Formerly: NFSC678D.

1. The nature of cancer and the relationship between dietary/nutritional factors and incidence of cancer 2. Basic concepts of general cancer biology with focus on effects of dietary components on genes and their encoded proteins, epigenetic changes and cell signaling 3. Effect of dietary factors in various types of cancer with respect to the benefit of intervention strategies for chemoprevention 4. Scientific knowledge, critical thinking, and the practical application of diet in cancer prevention.

0101	Seong-Ho Lee	Seats (Total: 15)
	Tu 4:00pm - 6:45pm	MMH 3112

NFSC678A **Selected Topics in Nutrition**

Credits: 1-4

Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Contact department for information to register for this course.

NFSC678F **Selected Topics in Nutrition; Current Topics in Nutrition and Chronic Disease**

Credits: 3

Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Prerequisite: NFSC100 or comparable course, or by permission of the instructor. Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman	Seats (Total: 20)
	M 2:15pm - 5:00pm	MMH 3112

NFSC678R **Selected Topics in Nutrition; Advanced Human Nutrition**

(Perm req)

Credits: 4

Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

Also offered as NFSC440. Prerequisites: NFSC100, BCHM462, BSCI440, and permission of department.

0101	David Lei	Seats (Total: 75)	
	TuTh 2:00pm - 3:40pm	PLS 1140	

NFSC678V **Selected Topics in Nutrition; Research Design and Methods in Health Promotion and Nutritional Education**

Credits: 3 Grading Method: Regular, Audit

Individual or group study in an area of nutrition.

The major goals are to help students understand fundamental behavioral, social models and theories used in the field of nutrition, and to address methodological issues in developing, implementing, and evaluating intervention programs, particularly in the context of nutrition education and behavior. The class topics include types of social and behavioral theories and models applied in the field of nutrition education and public health, conceptual framework building, methodological basics (conceptualizing and operationalizing measurements), reliability and validity of scales, psychometric analysis including factor analysis, and issues in evaluating intervention programs.

0101	Hee-Jung Song	Seats (Total: 10)	
	Tu 1:00pm - 3:45pm	SKN 0101	

NFSC679R **Selected Topics in Food Science; Food Safety and Nutrition Risk Assessment**

Credits: 4 Grading Method: Regular

Individual or group study in an area of food science.

0101	Abani Pradhan	Seats (Total: 25)	
	MW 11:00am - 11:50am	KEY 0126	
	F 11:00am - 1:30pm	TYD 0117	Lab

NFSC680 **Human Nutritional Status**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have complete coursework in advanced nutrition, biochemistry and physiology.

Indirect and direct methods of appraisal of human nutritional status which include: dietary, anthropometric, clinical evaluations and biochemical measures.

0101	Nadine Sahyoun F 10:00am - 12:45pm	Seats (Total: 15) SKN 0101

NFSC688 **Seminar in Nutrition and Food Science**

Credits: 1-3 Grading Method: Regular, Audit

This is a seminar course presentedy by NFSC graduate students and invited speakers in the field of nutrition and food science.

0101	Robert Jackson W 12:00pm - 12:50pm	Seats (Total: 25) SKN 0101

NFSC699 **Problems in Nutrition and Food Science**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC735 **Food Toxicology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Recommended: Undergraduate human physiology and/or biochemistry course. Restriction: Permission of AGNR-Nutrition and Food Science department.

From farm to fork - this course will discuss major sources and consequences of toxic contaminants and additives in our food. Exposure scenarios will include: naturally occurring toxins (e.g. seafood toxins, phytotoxins, phycotoxins, mycotoxins); contaminants introduced during food production (eg pesticides, antibiotics), contaminants introduced during food preparation (e.g. food additives, bacterial toxins), thermally generated toxins, and storage container toxins (e.g. bisphenol); finally food adulteration toxins will be discussed (e.g. lead, melamine).

0101	Robert Buchanan, Paul Turner W 1:00pm - 3:45pm	Seats (Total: 20) SPH 0227

NFSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

Contact department for information to register for this course.

NFSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PERS Persian Fall 2015

PERS101 **Elementary Persian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be native/fluent speaker of Persian.

Introduction to the alphabet, pronunciation patterns, greetings, basic structures, and other fundamentals, with emphasis on oral and aural skills.

0101	Susan Moinfar	Seats (Total: 15)
	MTuWF 10:00am - 10:50am	SQH 2114

PERS211 **Intermediate Conversation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS102; or students who have taken courses with comparable content may contact the department. Recommended: Concurrent enrollment in PERS201.

Development of aural and oral skills in Persian. Various genres and registers of speech. Special focus on contemporary daily life, with use of up-to-date media sources.

0101	Manizhe Galledari	Seats (Total: 15)
	MWF 11:00am - 11:50am	SQH 2114

PERS251 **Modern Iran**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS

General sociopolitical introduction to modern Iran from establishment of the Qajar dynasty in the late 18th century to the present day. Taught in English.

Also offered as HIST219X. Credit granted for PERS251 or HIST219X.

0101	Ida Meftahi	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 0208

PERS283 **Iranian Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Introduction to Iranian cinema, society, and culture. Taught in English

0101	Ahmad Karimi-Hakkak	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 1120

PERS301 **Advanced Persian I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS202; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be native/fluent speaker of Persian.

Development of speaking, reading, writing, listening and cultural knowledge through wide variety of activities, especially reading.

0101	Ali Abasi	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	JMZ 1122

PERS311 **Persian Media**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PERS301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Examines issues, values, institutions of the contemporary Persian and Persianete world, primarily through analysis and discussion of current events as reported in the written and audiovisual press. Focus will be on increasing content knowledge as well as linguistic competency in Persian. Taught in Persian.

0101	Nahal Akbari-Saneh	Seats (Total: 15)
	MWF 12:00pm - 12:50pm	JMZ 1215

PERS371 **Introduction to Persian Literature in Translation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU

Introduction to classical and modern canons of Persian literature in historical, esthetic, and social context. Taught in English.

0101	Ahmad Karimi-Hakkak	Seats (Total: 25)
	MW 4:00pm - 5:15pm	SQH 1103

PERS398C **Special Topics in Persian Studies; Islam: Learning, Piety, and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Also offered as HIST319L and RELS319L. Credit granted for HIST319L, PERS398C or RELS319L. An examination of the formation and development of major religious and intellectual currents of Islam in historical perspective. We will cover essential sources and practices (the Qur'an and the example of Muhammad), the development of religious disciplines of learning (Qur'an and hadith studies, law and ethics, philosophical and mystical theology), everyday popular ritual and piety (popular preaching, celebration of Muhammad's birth, saint cults), sectarian/charismatic movements (Shi'is and Kharijis), as well as the social and intellectual bases of reformist thought of both liberal and conservative character

0101	Ahmet Karamustafa	Seats (Total: 29)
	TuTh 9:30am - 10:45am	TLF 2103

PERS398D **Special Topics in Persian Studies; Contemporary Iranian Youth Culture**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

This course explores a range of contemporary youth practices, spaces, and media as a lens for analysis of larger Iranian society and culture. Taught in Persian. Permission required.

0101	Ida Meftahi M 9:00am - 11:45am	Seats (Total: 15) SQH 2115
	Persian Capstone students also have a meeting on Tuesdays 9:00am - 11:45am in SQH 2114.	

PERS398Q **Special Topics in Persian Studies; Social Issues in Contemporary Iran**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Permission required. Taught in Persian.

0101	Ali Abasi W 9:00am - 11:45am	Seats (Total: 5) SQH 2115

PERS398R **Special Topics in Persian Studies; Persian for Professional Purposes**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Taught in Persian.

0101	Manizhe Galledari Th 9:00am - 11:45am	Seats (Total: 5) SQH 2114

PERS399 **Directed Study in Persian**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Contact department for information to register for this course.

PERS399B **Directed Study in Persian; Directed Study**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Taught in Persian.

0101	Nahal Akbari-Saneh	Seats (Total: 10)
	Contact instructor or department for details.	

PERS399D **Directed Study in Persian; Capstone Research Project**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Directed study with faculty supervision.

Permission required. Taught in Persian.

0101	Nahal Akbari-Saneh	Seats (Total: 5)
	F 9:00am - 11:45am	SQH 2115

PERS498 **Special Topics in Persian Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic and language to be announced when offered.

Contact department for information to register for this course.

PERS689 **Special Topics in Persian Studies**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for permission to register.

Contact department for information to register for this course.

PERS689B **Special Topics in Persian Studies**

Credits: 3 Grading Method: Regular, Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for information to register for this course.

PHIL Philosophy Fall 2015

Click here for fuller PHIL course descriptions.

PHIL100 **Introduction to Philosophy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

0101	Andrew Knoll TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 SKN 1115	Discussion
0102	Andrew Knoll TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 TYD 2108	Discussion
0103	Andrew Knoll TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 TYD 1132	Discussion
0104	Andrew Knoll TuTh 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 HBK 0105	Discussion
0105	Andrew Knoll TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 HBK 0103	Discussion
0106	Andrew Knoll TuTh 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 HBK 0103	Discussion
0201	Logan Fletcher MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 26) CSI 2117 SYM 0209	Discussion
0202	Logan Fletcher MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) CSI 2117 HBK 0105	Discussion
0203	Logan Fletcher MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 25) CSI 2117 ASY 3221	Discussion

PHIL140 **Contemporary Moral Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

0101	Samuel Kerstein TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 MTH 0411	Discussion
0102	Samuel Kerstein TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 25) SKN 0200 TYD 2102	Discussion
0103	Samuel Kerstein TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 23) SKN 0200 SKN 1112	Discussion
0104	Samuel Kerstein TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 MTH 0103	Discussion
0105	Samuel Kerstein TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 25) SKN 0200 LEF 1201	Discussion
0106	Samuel Kerstein TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 23) SKN 0200 LEF 1220	Discussion
0201	Alexey Aliev MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 27) JMZ 0220 KEY 1117	Discussion
0202	Alexey Aliev MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 27) JMZ 0220 SPH 0307	Discussion

0203	Alexey Aliev MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0220 SKN 0104	Discussion
0204	Alexey Aliev MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 27) JMZ 0220 LEF 1220	Discussion
0205	Alexey Aliev MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 27) JMZ 0220 TYD 0102	Discussion
0206	Alexey Aliev MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0220 TYD 2110	Discussion
FC01	Alexey Aliev MW 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) PLS 1113	
FC02	Christopher Vogel TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) HBK 0108	
FC03	John Ritchie TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) HBK 0108	
FC04	Xuan Wang MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) HBK 0115	
FC05	Micah Tillman TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 24) PLS 1113	

PHIL170 **Introduction to Logic**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: MS | General Education: FSAR

Development of analytical reasoning skills through study of formal logics, reasoning systems, and fallacious inference patterns.

0101	Eric Pacuit MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 25) LEF 2205 KEY 0121	Discussion
0102	Eric Pacuit MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) LEF 2205 JMZ 0125	Discussion
0103	Eric Pacuit MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 25) LEF 2205 JMZ 1215	Discussion
0104	Eric Pacuit MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) LEF 2205 SKN 0104	Discussion
0105	Eric Pacuit MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 LEF 1201	Discussion
0106	Eric Pacuit MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 TYD 2109	Discussion
0107	Eric Pacuit MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 MTH 0302	Discussion
0108	Eric Pacuit MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 LEF 2166	Discussion
0109	Eric Pacuit MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) LEF 2205 SQH 1101	Discussion

PHIL209B **Investigating Darwin's Dangerous Idea**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: DSHS, DSHU, DSSP, SCIS

Darwin's revolutionary theory of evolution through natural selection was a scientific and cultural bombshell. This course explores the scientific and philosophical implications of Darwin's theory.

0101	Evan Westra MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) SQH 1120 WDS 0104	Discussion
0102	Evan Westra MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) SQH 1120 KEY 0102	Discussion
0103	Evan Westra MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) SQH 1120 WDS 1114	Discussion

PHIL209I **Philosophical Issues: Spooky Action at a Distance: Where Physics meets Metaphysics**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HO	General Education: DSHU, SCIS

Einstein believed physics should represent a "reality in space and time,free from spooky action at a distance" and worried that quantum theory failed that test. This course will investigate whether Einstein was right.

0101	Allen Stairs MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) TYD 2109 KEY 0121	Discussion
0102	Allen Stairs MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 25) TYD 2109 TLF 1103	Discussion
0103	Allen Stairs MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TYD 2109 KEY 0120	Discussion
FCH1	Allen Stairs M 3:00pm - 4:15pm Class time/details on ELMs *Restricted to students in Freshmen Connection.*	Seats (Total: 35) PLS 1119 ONLINE	

PHIL209J **Philosophical Issues: The Rights and Wrongs of Killing People**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, SCIS

This course raises some very simple, basic questions: Why is killing usually wrong? What makes it wrong? When is it permissible to kill? Is it ever permissible to kill an innocent human being intentionally?

0101	Christopher Morris TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 TLF 1101	Discussion
0102	Christopher Morris TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 SPH 0307	Discussion
0103	Christopher Morris TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 25) MMH 1400 KEY 0121	Discussion
0104	Christopher Morris TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 JMP 1109	Discussion
0105	Christopher Morris TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 JMP 1202	Discussion
0106	Christopher Morris TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 25) MMH 1400 TLF 1101	Discussion

PHIL236 **Philosophy of Religion**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU

Also offered as: RELS236. Credit only granted for: PHIL236 or RELS236.

A philosophical study of some of the main problems of religious thought the nature of religious experience, the justification of religious belief, the conflicting claims of religion and science, and the relation between religion and morality.

0101	Sungwon Woo MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 26) PLS 1140 EDU 2101	Discussion
0102	Sungwon Woo MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 26) PLS 1140 ASY 3211	Discussion
0103	Sungwon Woo MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) PLS 1140 ASY 2309	Discussion

PHIL256 **Philosophy of Biology I**

Credits: 3 | Grading Method: Regular, Audit | CORE: HO | General Education: DSHU

Issues in the discovery and justification of biological theories and models. Focus on cases from twentieth century biology, such as the genetic revolution or evolutionary theory.

0101	Lindley Darden TuTh 12:30pm - 1:45pm	Seats (Total: 30) SKN 1115	

PHIL261 **Philosophy of the Environment**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSHU

Credit only granted for: HONR218F or PHIL261. Formerly: HONR218F.

An evaluation of different kinds of arguments for the claim that the natural environment should be preserved. Perspectives cut across the disciplines of philosophy (environmental ethics and philosophies of nature); economics (cost-benefit analysis); and biology (evolution, ecology, environmental studies).

0101	Julius Schoenherr MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 23) LEF 2166 JMP 1202	Discussion
0102	Julius Schoenherr MW 10:00am - 10:50am F 12:00pm - 12:50pm	Seats (Total: 23) LEF 2166 KEY 0119	Discussion

0103	Julius Schoenherr MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 23) LEF 2166 JUL 1105	 Discussion

PHIL269M **Special Topics in Study Abroad II; Moral Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL269Y **Special Topics in Study Abroad II; Truth & Reality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL308T **Studies in Contemporary Philosophy; A Philosopher's Toolkit**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

An examination of how formal logic captures (and sometimes defies) logical intuitions, and how it supplies useful tools for clarifying a range of different philosophical problems, from issues of meaning, to issues of ontology and scientific reduction. NOTE: this course presupposes that you have already had some exposure to formal logic.

0101	Georges Rey TuTh 2:00pm - 3:15pm	Seats (Total: 25) SKN 1115

PHIL308W **Studies in Contemporary Philosophy; World Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

This course examines five philosophical traditions: Platonism, Islam, Mexica (Aztec), Yoruba, and Confucianism.

0101	James Maffie TuTh 11:00am - 12:15pm	Seats (Total: 25) KEY 0121	

PHIL310 **Ancient Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed 6 credits in philosophy or classics.

A study of the origins and development of philosophy and science in ancient Greece, focusing on the pre-Socratics, Socrates, Plato, and Aristotle.

0101	Kelsey Gipe TuTh 11:00am - 11:50am M 10:00am - 10:50am	Seats (Total: 23) TYD 2109 LEF 1220	Discussion
0102	Kelsey Gipe TuTh 11:00am - 11:50am M 12:00pm - 12:50pm	Seats (Total: 23) TYD 2109 TYD 2108	Discussion
0103	Kelsey Gipe TuTh 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 23) TYD 2109 LEF 1201	Discussion

PHIL332 **Philosophy of Beauty**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 courses in PHIL; or permission of ARHU-Philosophy department.

Philosophical theories, historical and contemporary, of beauty, sublimity, and other aesthetic qualities, of aesthetic experience, and of aesthetic judgment.

0101	John Brown TuTh 9:30am - 10:45am	Seats (Total: 25) JMZ 2122	

PHIL341 **Ethical Theory**

Credits: 3 Grading Method: Regular

Prerequisite: 6 credits in PHIL courses.

A critical examination of classical and contemporary systems of ethics, such as those of Aristotle, Kant, Mill, and Rawls.

Prerequisite: 6 credit hours in philosophy.

0101	Patricia Greenspan	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	SKN 1112

PHIL354 **Philosophy of Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH220 or PHYS260; or students who have taken courses with comparable content may contact the department; or permission of ARHU-Philosophy department. Recommended: PHYS401 and PHYS270. Credit only granted for: PHIL354 or PHIL452.

An introduction to current issues at the interface of physics and philosophy, associated with our current picture of the physical world as fundamentally quantum mechanical. Topics include the debate between Einstein and Bohr on the objectivity and completeness of the quantum description, nonlocality and Bell's theorem, realism and the measurement problem, irreversibility and the arrow of time.

0101	Jeffrey Bub	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SKN 1112

PHIL360 **Philosophy of Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 2 courses in PHIL; and (PHIL170 or PHIL370). Or permission of ARHU-Philosophy department. Also offered as: LING350. Credit only granted for: LING350 or PHIL360.

An inquiry into the nature and function of language and other forms of symbolism.

0101	Alexander Williams	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SKN 1115

PHIL362 **Theory of Knowledge**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses; and PHIL170. Formerly: PHIL462.

Some central topics in the theory of knowledge, such as perception, memory, knowledge, and belief, skepticism, other minds, truth, and the problems of induction.

0101	Aidan Lyon	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHIL370 **Symbolic Logic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHIL170 or CMSC250; or permission of ARHU-Philosophy department. Credit only granted for: PHIL271, PHIL370, or PHIL371.

A review of propositional and predicate logic and related topics and an introduction to the semantics and metatheory of first-order logic.

0101	Aleks Knoks	Seats (Total: 25)
	MW 2:00pm - 3:15pm	KEY 1117

PHIL386 **Experiential Learning**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-Philosophy department; and junior standing or higher.

Consult Director of Undergraduate Studies: C. Manekin. Prerequisites: 12 credit hours of philosophy and 3.0 GPA. Carries no credit toward philosophy major.

Contact department for information to register for this course.

PHIL408F **Topics in Contemporary Philosophy; Philosophy of Song**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

A philosophical examination of the phenomenon of song from a philosophical point of view, asking questions such as these: What is distinctive about song as a kind of music? How do the lyrics of songs differ from poems? What accounts for the special power of songs? Examples will include classical or art songs, jazz standards, classic and contemporary rock and other genres.

0101	Jerrold Levinson	Seats (Total: 25)
	MW 2:00pm - 3:15pm	SKN 1115

PHIL408G **Topics in Contemporary Philosophy; Emotion, Reason, and Motivation**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

An examination of the nature of emotion, reason, and the motivational role that these play in everyday decision-making. The discussion will draw on evolution, psychology, and philosophy.

0101	Heather Adair	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	WDS 1130

PHIL408K **Topics in Contemporary Philosophy; The Nature of Morality**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

Addresses core questions about morality such as whether morality is subjective or objective, and whether moral norms reflect power structures. Readings may include classic texts, as well as contemporary philosophers and cognitive scientists.

0101	Christian Tarsney	Seats (Total: 25)
	MW 3:30pm - 4:45pm	TYD 2111

PHIL408X **Topics in Contemporary Philosophy; Percieving, Dreaming, and Other Concsious Episodes**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

Examines the problem of how the brain -a three pound collection of cells - gives rise to a conscious experiences such as dreams, mental imagery, and perceptions.

0101	Ryan Ogilvie	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PHIL417 **The Golden Age of Jewish Philosophy**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 3 credits in PHIL courses; or permission of ARHU-Philosophy department. Also offered as: JWST452. Credit only granted for: JWST452 or PHIL417.

Jewish philosophy from Maimonides in the 12th century to the expulsion of the Jews from Spain at the end of the 15th century. Topics include the limitations of human knowledge, creation of the world, foreknowledge and free will, and the existence of God.

0101	Charles Manekin	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1103

PHIL428K **Topics in the History of Philosophy; Kantian Ethics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Five course in philosophy; at least two of the five at the 300-level or above. Explores Immanuel Kant's ethics through a careful reading of the "Groundwork of the Metaphysics of Morals". Questions to be raised include: Does Kant have a plausible view of moral worth? Is the theory of agency on which he builds his ethics acceptable? Are any versions of the categorical imperitive plausible candidates for the supreme principle of morality?

0101	Samuel Kerstein	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	SKN 1112

PHIL458B **Topics in the Philosophy of Science; History and Philosophy of Modern Biology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A detailed examination of a particular topic or problem in philosophy of science.

A combined history and philosophy of modern biology course with cases from nineteenth and twentieth century evolutionary biology and genetics.

0101	Lindley Darden	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	SKN 1115
	Credit will be granted for only one of the following: HIST404 or PHIL458B.	

PHIL469Y **Study Abroad Special Topics IV; Philosophy of Science II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL478M **Topics in Philosophical Logic; Modal Logic**

Credits: 3 Grading Method: Regular, Pass-Fail

Methods and results of philosophical logic, the application of logical techniques to the study of concepts or problems of philosophical interest. Content will vary, either treating a particular logical area in detail--such as modal logic, conditional logic, deontic logic, intuitionistic or relevance logic, theories of truth and paradox--or surveying a number of these different areas.

A study of the branch of formal logic that deals with possibility, necessity and other so-called "modal" notions. Students should have a prior course in logic before taking this course.

0101	Eric Pacuit	Seats (Total: 20)	
	MW 1:00pm - 1:50pm Class time/details on ELMs	SKN 1115 ONLINE	Discussion

PHIL498F **Topical Investigations; Topical Investigation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL498G **Topical Investigations; Topical Investigation**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite:Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL640 **Value Theory**

Credits: 3 Grading Method: Regular, Audit

A basic course in value theory for beginning graduate students, coverin a number of topics in depth, to provide a springboard for further study and research in the area.

0101	Patricia Greenspan	Seats (Total: 15)	
	Tu 3:30pm - 6:00pm	EGR 3111	

PHIL688B **Selected Problems in Philosophy; History and Philosophy of Modern Biology**

Credits: 3 Grading Method: Regular, Audit

0101	Lindley Darden TuTh 3:30pm - 4:45pm	Seats (Total: 7) SKN 1115

PHIL688G **Selected Problems in Philosophy; The Golden Age of Jewish Philosophy**

Credits: 3 Grading Method: Regular, Audit

0101	Charles Manekin TuTh 11:00am - 12:15pm	Seats (Total: 5) SQH 1103

PHIL688K **Selected Problems in Philosophy; Kantian Ethics**

Credits: 3 Grading Method: Regular, Audit

0101	Samuel Kerstein TuTh 2:00pm - 3:15pm	Seats (Total: 3) SKN 1112

PHIL688T **Selected Problems in Philosophy; Introduction to Semantics**

Credits: 3 Grading Method: Regular, Audit

Also offered as LING660. Credit granted for LING660 or PHIL688T.

0101	Paul Pietroski MW 9:00am - 10:15am	Seats (Total: 15) ARC 1125

PHIL788G **Research in Philosophy; Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL788I **Research in Philosophy; Research in Philosophy**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL799 **Master's Thesis Research; Masters Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHIL838J **Seminar in Aesthetics**

Credits: 3 Grading Method: Regular, Audit

0101	Jerrold Levinson M 4:30pm - 7:00pm	Seats (Total: 15) SKN 1116

PHIL858J **Seminar in Logic and Philosophy of Sciences; Quantum Mechanics for Primates**

Credits: 3 Grading Method: Regular, Audit

0101	Jeffrey Bub Th 1:00pm - 3:30pm	Seats (Total: 15) SKN 1116

PHIL879G **Seminar in Philosophy and Cognitive Studies; Early Intentionality in Language and Vision**

Credits: 3 Grading Method: Regular, Audit

0101	Georges Rey Th 4:30pm - 7:00pm	Seats (Total: 15) SKN 1116

PHIL888 **Professional Mentoring for Doctoral Students**

Credits: 1-3 Grading Method: Sat-Fail

Work with a faculty advisor on various aspects of professional development.

Contact department for information to register for this course.

PHIL889 **Pedagogical Mentoring for Doctoral Students**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Work with a faculty advisor to develop and improve pedagogical skills.

Contact department for information to register for this course.

PHIL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHIL899 **Doctoral Dissertation Research; Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PHSC Public Health Science Fall 2015

PHSC401 **History of Public Health**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have earned a minimum of 45 credits. Credit only granted for: PHSC401 or SPHL401. Formerly: SPHL401.

Emphasis is on the history of public health in the Western world from antiquity to the present. Also examines the influence of public health developments as they relate to the Western world as well as throughout diverse cultures and societies across the globe. Analysis focuses on the interaction among Western and non-Western cultures with respect to health issues, including science, policies, prevention and treatment.

0101	Eric Boyle M 4:00pm - 6:30pm	Seats (Total: 36) PHY 1402
0102	Marian Jones W 4:00pm - 6:30pm	Seats (Total: 40) CHM 2201
SG91	Eric Boyle Th 2:00pm - 4:50pm	Seats (Total: 18) Location: TBA
SG92	Eric Boyle Th 6:00pm - 8:50pm	Seats (Total: 18) BLD3 4226

PHSC402 **Public Health Emergency Preparedness**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in EPIB300 and EPIB301. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC402 or SPHL402. Formerly: SPHL402.

Intensive introduction to public health emergency preparedness. Course will provide students with an overview of the role of public health in planning, prevention, preparedness, response, and recovery from disasters, both manmade and natural.

SG91	Marilyn London W 2:00pm - 4:50pm	Seats (Total: 36) Location: TBA

PHSC410 **Public Health Program Planning and Evaluation**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC410 or SPHL410. Formerly: SPHL410.

Students will become familiar with the dynamics of public health progra planning, and the basic process of identifying unmet needs. They will be able to identify different types of program evaluation, including needs assessment, formative research, process evaluation, impact assessment, and cost analysis.

SG91	Robin Yi M 12:00pm - 2:50pm *Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required to other UMCP undergraduate students to enroll.*	Seats (Total: 36) BLD3 3240

PHSC415 **Essentials of Public Health Biology: The Cell, The Individual, and Disease**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.

Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.

0101	Gretchen De Silva MWF 1:00pm - 1:50pm	Seats (Total: 54) SPH 1301
SG91	Jessica O'Hara Tu 9:00am - 11:50am *Class meets at the Shady Grove campus. Restricted to School of Public Health students. Permission of program director is required for other UMCP undergraduate students to enroll.*	Seats (Total: 36) BLD3 4203
SG92	Jessica O'Hara Tu 1:00pm - 3:50pm	Seats (Total: 36) BLD3 4203

PHSC420 **Vaccines and Immunology**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI223. Recommended: CHEM231. Restriction: Must have earned a minimum of 60 credits. And must be in Public Health Science program; or permission of instructor.

An exploration of immunology and vaccines through a public health lens. We will examine the cells, systems, and molecules that comprise the human immune system and defend your body against disease. In addition, we will discuss the strategies used during vaccine development including the history and future of vaccination and how increased understanding of the immune system has allowed scientists to improve and refine the process. Finally we will examine the current social and political situation surrounding vaccination and the roles and responsibility of public health practitioners.

0101	Gretchen De Silva	Seats (Total: 40)
	MWF 10:00am - 10:50am	SPH 1303

PHSC491 **Public Health Science Internship**

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have completed a minimum of 75 credits; and must have permission of instructor. Credit only granted for: PHSC491 or SPHL491. Formerly: SPHL491. Additional information: Prospective students must meet with an advisor and complete internship verification, expectations and responsibilities prior to registration. This is generally completed the semester prior to beginning the internship.

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

SG91	Lynn Cook	Seats (Total: 18)
	Contact instructor or department for details.	

PHYS Physics Fall 2015

PHYS102 **Physics of Music**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with PHYS103)

Prerequisite: Must have math eligibility of MATH110 or higher. Credit only granted for: PHYS102 and PHYS499C. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS103.

A study of the physical basis of sound, acoustical properties of sound, the human ear and voice, reproduction of sound, electronic music, acoustical properties of auditoriums, and other selected topics.

0101	Alan Peel TuTh 9:30am - 10:45am	Seats (Total: 150) PHY 1410	

PHYS103 **Physics of Music Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Optional laboratory to accompany PHYS 102. Laboratory experiments, including the velocity of sound, sound quality and wave shape, traveling and standing waves, fourier synthesis and analysis, musical synthesizer, psychoacoustics, and audio equipment.

0101	Andris Skuja Th 11:00am - 12:50pm	Seats (Total: 18) PHY 3220	Lab
0201	Andris Skuja Th 1:00pm - 2:50pm	Seats (Total: 18) PHY 3220	Lab
0301	Andris Skuja Th 3:30pm - 5:20pm	Seats (Total: 18) PHY 3220	Lab
0401	Andris Skuja F 10:00am - 11:50am *Recommended for First-Year students.*	Seats (Total: 18) PHY 3220	Lab
0501	Andris Skuja F 12:00pm - 1:50pm	Seats (Total: 18) PHY 3220	Lab
0601	Andris Skuja F 2:00pm - 3:50pm	Seats (Total: 18) PHY 3220	Lab
0701	Andris Skuja W 3:00pm - 5:00pm	Seats (Total: 18) PHY 3220	Lab
0801	Andris Skuja W 1:00pm - 2:50pm	Seats (Total: 18) PHY 3220	Lab

PHYS105 **Physics for Decision Makers: Global Energy Crisis**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS, SCIS

This marquee course will consider the global energy crisis from a scientific perspective. Topics include basic laws of energy and thermodynamics, their effects on energy production and distribution, greenhouse gas, global warming and policy options for decision makers. This course is aimed at the non-science major.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Sarah Eno TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 24) PHY 1410 PHY 0405	 Discussion
0102	Sarah Eno TuTh 12:30pm - 1:45pm M 1:00pm - 1:50pm	Seats (Total: 24) PHY 1410 PHY 0405	 Discussion
0104	Sarah Eno TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 24) PHY 1410 MTH 0102	 Discussion
0105	Sarah Eno TuTh 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 24) PHY 1410 PHY 1219	 Discussion

PHYS111 **Physics in the Modern World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS

A survey course in general physics emphasizing the role that physics plays in science, technology, and society today. The course is concept oriented and minimal use of mathematics is made. Intended for the general student; does not satisfy the requirements of the professional schools.

Contact department for information to register for this course.

PHYS115 **Inquiry into Physics**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Recommended: High School Physics. Restriction: Must not have completed PHYS117; and must be in one of the following programs (Elementary Education; Early Childhood Education). Credit only granted for: PHYS115 or PHYS117.

Intended for students majoring in neither the physical nor the biological sciences. Use of laboratory-based and inquiry-based methods to study some of the basic ideas of physical sciences.

0101	Theodore Einstein MWF 1:00pm - 2:50pm	Seats (Total: 20) PHY 3316	 Lab
0201	Marguerite Tonjes MWF 9:00am - 10:50am	Seats (Total: 20) PHY 3316	 Lab

PHYS121 **Fundamentals of Physics I**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: MATH112 or MATH115. Credit only granted for: PHYS121 or PHYS131.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Physics clinic, PHY 1214, MTWHF 11,1. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

0201	Sergio Picozzi MWF 12:00pm - 12:50pm M 10:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 26) PHY 1412 PHY 3306 PHY 0405	 Lab Discussion
0202	Sergio Picozzi MWF 12:00pm - 12:50pm M 2:00pm - 3:50pm M 1:00pm - 1:50pm	Seats (Total: 26) PHY 1412 PHY 3306 MTH 0201	 Lab Discussion
0203	Sergio Picozzi MWF 12:00pm - 12:50pm Tu 9:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 26) PHY 1412 PHY 3306 PHY 1402	 Lab Discussion
0204	Sergio Picozzi MWF 12:00pm - 12:50pm Tu 3:00pm - 4:50pm Tu 2:00pm - 2:50pm	Seats (Total: 26) PHY 1412 PHY 3306 MTH 0102	 Lab Discussion

0206	Sergio Picozzi	Seats (Total: 26)	
	MWF 12:00pm - 12:50pm	PHY 1412	
	W 3:00pm - 4:50pm	PHY 3306	Lab
	W 2:00pm - 2:50pm	MTH 0302	Discussion
0401	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	M 8:00pm - 9:50pm	PHY 3306	Lab
	W 6:30pm - 7:20pm	PHY 1402	Discussion
0402	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	W 7:30pm - 9:20pm	PHY 3306	Lab
	M 6:30pm - 7:20pm	PHY 1402	Discussion
0403	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Tu 5:00pm - 6:50pm	PHY 3306	Lab
	Th 7:30pm - 8:20pm	PHY 1219	Discussion
0404	Sergio Picozzi	Seats (Total: 26)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	M 6:00pm - 7:50pm	PHY 3306	Lab
	M 5:00pm - 5:50pm	PHY 0405	Discussion
0405	Sergio Picozzi	Seats (Total: 8)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Th 7:30pm - 9:20pm	PHY 3306	Lab
	Tu 6:00pm - 6:50pm	MTH 0201	Discussion
SEF1	Sergio Picozzi	Seats (Total: 18)	
	Tu 7:00pm - 8:50pm	PHY 1410	
	Th 6:30pm - 7:20pm	PHY 1410	
	Th 7:30pm - 9:20pm	PHY 3306	Lab
	Tu 6:00pm - 6:50pm	MTH 0201	Discussion
	Restricted to students in the SIE Program. Click here for more information.		

PHYS122 **Fundamentals of Physics II**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: PL | General Education: DSNL

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Physics clinic, PHY 1214, MTWHF 12,2. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

0101	Sergio Picozzi MWF 1:00pm - 1:50pm M 4:00pm - 5:50pm M 3:00pm - 3:50pm	Seats (Total: 24) PHY 1410 PHY 3314 BPS 1232	 Lab Discussion
0102	Sergio Picozzi MWF 1:00pm - 1:50pm Tu 10:00am - 11:50am Tu 9:00am - 9:50am	Seats (Total: 24) PHY 1410 PHY 3314 MTH 0405	 Lab Discussion
0105	Sergio Picozzi MWF 1:00pm - 1:50pm Tu 4:00pm - 5:50pm Th 4:00pm - 4:50pm	Seats (Total: 24) PHY 1410 PHY 3314 PHY 1204	 Lab Discussion
0401	Sergio Picozzi MW 6:00pm - 7:15pm M 7:30pm - 9:20pm W 7:30pm - 8:20pm	Seats (Total: 18) PHY 1204 PHY 3314 PHY 1204	 Lab Discussion
0402	Sergio Picozzi MW 6:00pm - 7:15pm W 7:30pm - 9:20pm M 7:30pm - 8:20pm	Seats (Total: 24) PHY 1204 PHY 3314 PHY 1204	 Lab Discussion
SEF1	Sergio Picozzi MW 6:00pm - 7:15pm M 7:30pm - 9:20pm W 7:30pm - 8:20pm *Restricted to students in the SIE Program. Click here for more information.*	Seats (Total: 6) PHY 1204 PHY 3314 PHY 1204	 Lab Discussion

PHYS131 **Fundamentals of Physics for Life Sciences I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH130, MATH131, BSCI105, BSCI106, and CHEM131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121 or PHYS131.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

Students must pay a $50.00 laboratory materials fee.

0101	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	W 5:00pm - 6:50pm	PHY 3310	Lab
	W 4:00pm - 4:50pm	PHY 3310	Discussion
0102	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	M 4:00pm - 5:50pm	PHY 3310	Lab
	M 3:00pm - 3:50pm	PHY 3310	Discussion
0103	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	Tu 11:00am - 12:50pm	PHY 3310	Lab
	Tu 10:00am - 10:50am	PHY 3310	Discussion
0104	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	W 1:00pm - 2:50pm	PHY 3310	Lab
	W 12:00pm - 12:50pm	PHY 3310	Discussion
0105	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	Tu 2:00pm - 3:50pm	PHY 3310	Lab
	Tu 1:00pm - 1:50pm	PHY 3310	Discussion

0106	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	Th 2:00pm - 3:50pm	PHY 3310	Lab
	Th 1:00pm - 1:50pm	PHY 3310	Discussion
0107	Edward Redish	Seats (Total: 24)	
	MWF 10:00am - 10:50am	PHY 1412	
	M 7:00pm - 8:50pm	PHY 3310	Lab
	M 6:00pm - 6:50pm	PHY 3310	Discussion
0201	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	M 12:00pm - 1:50pm	PHY 3310	Lab
	M 11:00am - 11:50am	PHY 3310	Discussion
0202	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Tu 5:00pm - 6:50pm	PHY 3310	Lab
	Tu 4:00pm - 4:50pm	PHY 3310	Discussion
0203	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Th 11:00am - 12:50pm	PHY 3310	Lab
	Th 10:00am - 10:50am	PHY 3310	Discussion
0204	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	Th 5:00pm - 6:50pm	PHY 3310	Lab
	Th 4:00pm - 4:50pm	PHY 3310	Discussion
0205	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 2:00pm - 3:15pm	PHY 1410	
	W 10:00am - 11:50am	PHY 3310	Lab
	W 9:00am - 9:50am	PHY 3310	Discussion
SG91	Marco Colombini	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	Location: TBA	
	F 2:00pm - 4:50pm	BLD2 4012	Lab
	F 1:00pm - 1:50pm	Location: TBA	Discussion
	Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.		

PHYS132 **Fundamentals of Physics for Life Sciences II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122 or PHYS132.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

Students must pay a $50.00 laboratory materials fee.

0101	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Tu 1:00pm - 2:50pm	PHY 3312	Lab
	Tu 12:00pm - 12:50pm	PHY 3312	Discussion
0103	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	M 4:00pm - 5:50pm	PHY 3312	Lab
	M 3:00pm - 3:50pm	PHY 3312	Discussion
0104	David Buehrle	Seats (Total: 18)	
	MWF 11:00am - 11:50am	PHY 1412	
	W 4:00pm - 5:50pm	PHY 3312	Lab
	W 3:00pm - 3:50pm	PHY 3312	Discussion
0105	David Buehrle	Seats (Total: 24)	
	MWF 11:00am - 11:50am	PHY 1412	
	Tu 4:00pm - 5:50pm	PHY 3312	Lab
	Tu 3:00pm - 3:50pm	PHY 3312	Discussion
0201	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 10:00am - 11:50am	PHY 3312	Lab
	M 9:00am - 9:50am	PHY 3312	Discussion
0203	David Buehrle	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 1:00pm - 2:50pm	PHY 3312	Lab
	M 12:00pm - 12:50pm	PHY 3312	Discussion

0204	David Buehrle TuTh 12:30pm - 1:45pm W 1:00pm - 2:50pm W 12:00pm - 12:50pm	Seats (Total: 18) PHY 1412 PHY 3312 PHY 3312	 Lab Discussion

PHYS161 **General Physics: Mechanics and Particle Dynamics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

Physics clinic, PHY 1214, MTWHF 11, 2. If purchasing used books additional software may be required.

0101	David Buehrle MWF 3:00pm - 3:50pm Tu 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 PHY 1402	 Discussion
0103	David Buehrle MWF 3:00pm - 3:50pm F 10:00am - 10:50am	Seats (Total: 37) PHY 1410 CHM 0128	 Discussion
0104	David Buehrle MWF 3:00pm - 3:50pm F 11:00am - 11:50am	Seats (Total: 37) PHY 1410 PHY 0405	 Discussion
0201	Theodore Kirkpatrick TuTh 11:00am - 12:15pm Th 8:00am - 8:50am	Seats (Total: 37) PHY 1410 PHY 0405	 Discussion
0202	Theodore Kirkpatrick TuTh 11:00am - 12:15pm Tu 2:00pm - 2:50pm	Seats (Total: 37) PHY 1410 PHY 1204	 Discussion
0203	Theodore Kirkpatrick TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 CHM 0128	 Discussion

0204	Theodore Kirkpatrick TuTh 11:00am - 12:15pm W 4:00pm - 4:50pm	Seats (Total: 35) PHY 1410 MTH 0106	Discussion
0301	David Buehrle MWF 10:00am - 10:50am Th 3:00pm - 3:50pm	Seats (Total: 37) PHY 1410 PHY 1204	Discussion
0302	David Buehrle MWF 10:00am - 10:50am Tu 4:00pm - 4:50pm	Seats (Total: 37) PHY 1410 PHY 1219	Discussion
0303	David Buehrle MWF 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 37) PHY 1410 PHY 0405	Discussion
0304	David Buehrle MWF 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 35) PHY 1410 BPS 1228	Discussion

PHYS165 **Introduction to Programming in the Physical Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS171, PHYS141, or PHYS161; or must have scored 3 or higher on AP PHYS exam.

Introduction to programming using examples in the physical sciences. Provides instruction in the techniques of upper-level languages such as Fortran, C, and Pascal, as well as an introduction to the object oriented programming techniques used in Python, C++ and Java. Includes strong component of visualization and graphing.

0101	Rajarshi Roy TuTh 9:30am - 10:45am	Seats (Total: 32) PLS 1129	

PHYS170 **Professional Physics Seminar**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140.

Provides a look at some of the major developments of current interest i physics research and discusses the activities physicists undertake in research, education, industry, government, and other areas of the economy.

0101	Roald Sagdeev W 12:00pm - 12:50pm	Seats (Total: 13) PHY 1402
0201	Roald Sagdeev M 12:00pm - 12:50pm	Seats (Total: 13) PHY 1402

PHYS171 **Introductory Physics: Mechanics and Relativity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

Also offered as PHYS 171H.

0201	Christopher Lobb TuTh 9:30am - 10:45am M 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 55) PHY 1201 PHY 1201 PHY 1201	 Discussion Discussion

PHYS171H **Introductory Physics: Mechanics and Relativity**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: PS | General Education: DSNS

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

Also offered as PHYS171.

0201	Christopher Lobb TuTh 9:30am - 10:45am M 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 55) PHY 1201 PHY 1201 PHY 1201	 Discussion Discussion

PHYS174 **Physics Laboratory Introduction**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Recommended: High school physics.

Introduces students to the techniques of data gathering and analysis. This course will lay a foundation for higher-level labs in physics and the physical sciences. Students will learn to use laboratory equipment such as calipers, meters, oscilloscopes, and computer interfaces. Techniques of measurement and error analysis will be presented. Students will be taught to use the computer for data analysis with an emphasis on using spreadsheets.

0102	Richard Greene W 2:00pm - 3:50pm	Seats (Total: 26) PHY 3115	 Lab
0103	Wendell Hill Th 2:00pm - 3:50pm	Seats (Total: 26) PHY 3115	 Lab
0105	Richard Greene W 12:00pm - 1:50pm	Seats (Total: 26) PHY 3115	 Lab
0106	Wendell Hill W 10:00am - 11:50am	Seats (Total: 26) PHY 3115	 Lab
0107	Richard Greene Tu 2:00pm - 3:50pm	Seats (Total: 26) PHY 3115	 Lab
0108	Wendell Hill W 4:00pm - 5:50pm	Seats (Total: 26) PHY 3115	 Lab

PHYS199M **The Manhattan Project**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSHS, DSNS, SCIS

This course explores the development of the atomic bomb during the Manhattan project. Nuclear Physics is introduced in a historical context from the discovery of radioactivity in 1896 to the discovery of nuclear fission in Germany in 1938; this historical approach allows students to understand how scientific knowledge is built up over time.

A Marquee Science and Technology Course designed for Non-Science Majors: http://www.marqueecourses.umd.edu/ Click here for more Marquee course information.*

0101	Johnpierre Paglione MW 4:00pm - 5:15pm M 1:00pm - 1:50pm	Seats (Total: 33) PHY 1410 PHY 1402	 Discussion
0103	Johnpierre Paglione MW 4:00pm - 5:15pm Tu 2:00pm - 2:50pm	Seats (Total: 33) PHY 1410 PHY 1402	 Discussion
0104	Johnpierre Paglione MW 4:00pm - 5:15pm W 1:00pm - 1:50pm	Seats (Total: 33) PHY 1410 PHY 1402	 Discussion

PHYS260 **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, (PHYS260 and PHYS261), or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS260 and PHYS261.

If purchasing used books additional software may be required.

0101	Eun-Suk Seo MW 4:30pm - 5:45pm Tu 11:00am - 11:50am	Seats (Total: 30) PHY 1412 EGR 0108	 Discussion
0102	Eun-Suk Seo MW 4:30pm - 5:45pm W 10:00am - 10:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion

0103	Eun-Suk Seo MW 4:30pm - 5:45pm W 8:00am - 8:50am	Seats (Total: 30) PHY 1412 PHY 1219	Discussion
0104	Eun-Suk Seo MW 4:30pm - 5:45pm W 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 0405	Discussion
0105	Eun-Suk Seo MW 4:30pm - 5:45pm F 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 PHY 1204	Discussion
0201	Sergio Picozzi MW 3:00pm - 4:15pm Tu 8:00am - 8:50am	Seats (Total: 30) PHY 1412 PHY 0405	Discussion
0202	Sergio Picozzi MW 3:00pm - 4:15pm Tu 9:00am - 9:50am	Seats (Total: 30) PHY 1412 HBK 0105	Discussion
0203	Sergio Picozzi MW 3:00pm - 4:15pm Tu 11:00am - 11:50am	Seats (Total: 30) PHY 1412 JMP 1109	Discussion
0204	Sergio Picozzi MW 3:00pm - 4:15pm F 2:00pm - 2:50pm	Seats (Total: 30) PHY 1412 PHY 1402	Discussion
0205	Sergio Picozzi MW 3:00pm - 4:15pm W 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 MTH 0305	Discussion
0206	Sergio Picozzi MW 3:00pm - 4:15pm M 4:30pm - 5:20pm	Seats (Total: 30) PHY 1412 PHY 1219	Discussion
0207	Sergio Picozzi MW 3:00pm - 4:15pm W 4:30pm - 5:20pm	Seats (Total: 30) PHY 1412 MTH 0101	Discussion

0301	Rabindra Mohapatra TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 PHY 1219	 Discussion
0302	Rabindra Mohapatra TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0303	Rabindra Mohapatra TuTh 2:00pm - 3:15pm Tu 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 PLS 1111	 Discussion
0304	Rabindra Mohapatra TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 30) PHY 1412 PHY 1402	 Discussion
0305	Rabindra Mohapatra TuTh 2:00pm - 3:15pm Tu 1:00pm - 1:50pm	Seats (Total: 30) PHY 1412 SPH 0308	 Discussion
0401	Hailu Gebremariam M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 8:00pm - 8:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 0405	 Discussion
0402	Hailu Gebremariam M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 6:00pm - 6:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 1219	 Discussion
0403	Hailu Gebremariam M 7:00pm - 8:50pm W 7:00pm - 7:50pm M 6:00pm - 6:50pm	Seats (Total: 30) PHY 1410 PHY 1410 PHY 1219	 Discussion
0501	Andrew Smith TuTh 3:30pm - 4:45pm F 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion
0502	Andrew Smith TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 30) PHY 1412 PHY 0405	 Discussion

0503	Andrew Smith TuTh 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 30) PHY 1412 SPH 1302	 Discussion
0504	Andrew Smith TuTh 3:30pm - 4:45pm W 10:00am - 10:50am	Seats (Total: 30) PHY 1412 SPH 1302	 Discussion

PHYS260H **General Physics: Vibration, Waves, Heat, Electricity and Magnetism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, (PHYS260 and PHYS261), or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS260 and PHYS261.

If purchasing used books additional software may be required.

0301	Rabindra Mohapatra TuTh 2:00pm - 3:15pm M 12:00pm - 12:50pm	Seats (Total: 25) PHY 1412 HBK 0105	 Discussion

PHYS261 **General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS260 and PHYS261.

Students must pay a $50.00 laboratory materials fee.

0201	Sungwoo Hong M 8:00am - 10:20am	Seats (Total: 36) PHY 3219	 Lab

0202	Sungwoo Hong M 10:30am - 12:50pm	Seats (Total: 36) PHY 3219	Lab
0203	Sungwoo Hong M 1:00pm - 3:20pm	Seats (Total: 36) PHY 3219	Lab
0204	Sungwoo Hong M 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0205	Sungwoo Hong M 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0206	Sungwoo Hong Tu 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab
0207	Sungwoo Hong Tu 11:30am - 1:50pm	Seats (Total: 36) PHY 3219	Lab
0208	Sungwoo Hong Tu 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219	Lab
0209	Sungwoo Hong Tu 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0210	Sungwoo Hong Tu 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab
0211	Sungwoo Hong W 8:00am - 10:20am	Seats (Total: 36) PHY 3219	Lab
0212	Sungwoo Hong W 10:30am - 12:50pm	Seats (Total: 36) PHY 3219	Lab
0213	Sungwoo Hong W 1:00pm - 3:20pm	Seats (Total: 36) PHY 3219	Lab
0214	Sungwoo Hong W 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab
0215	Sungwoo Hong W 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab

0216	Sungwoo Hong Th 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab	
0217	Sungwoo Hong Th 11:30am - 1:50pm	Seats (Total: 36) PHY 3219	Lab	
0218	Sungwoo Hong Th 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219	Lab	
0219	Sungwoo Hong Th 4:30pm - 6:50pm	Seats (Total: 36) PHY 3219	Lab	
0220	Sungwoo Hong Th 7:00pm - 9:20pm	Seats (Total: 36) PHY 3219	Lab	
0221	Sungwoo Hong F 9:00am - 11:20am	Seats (Total: 36) PHY 3219	Lab	

PHYS261M **General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)**

(Perm req)

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS260 and PHYS261.

0101	Sungwoo Hong Contact instructor or department for details. *Restricted to students transferring a lab grade from a previous semester.*	Seats (Total: 10)

PHYS270 **General Physics: Electrodynamics, Light, Relativity and Modern Physics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS271)

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Third semester of a three-semester calculus-based general physics course. Electrodynamics, Maxwell's equations and electromagnetic waves, geometrical optics, interference, diffraction, special theory of relativity, and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS270 and PHYS271.

If purchasing used books additional software may be required.

0101	Bei Lok Hu TuTh 5:00pm - 6:15pm Th 2:00pm - 2:50pm	Seats (Total: 35) PHY 1412 PHY 1204	 Discussion
0102	Bei Lok Hu TuTh 5:00pm - 6:15pm Th 4:00pm - 4:50pm	Seats (Total: 35) PHY 1412 PHY 1219	 Discussion
0103	Bei Lok Hu TuTh 5:00pm - 6:15pm W 9:00am - 9:50am	Seats (Total: 35) PHY 1412 CHM 0128	 Discussion
0104	Bei Lok Hu TuTh 5:00pm - 6:15pm F 1:00pm - 1:50pm	Seats (Total: 35) PHY 1412 PHY 0405	 Discussion
0301	Peter Shawhan MWF 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 35) PHY 1410 PHY 0405	 Discussion
0302	Peter Shawhan MWF 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 30) PHY 1410 MTH 0411	 Discussion
0303	Peter Shawhan MWF 12:00pm - 12:50pm F 2:00pm - 2:50pm	Seats (Total: 35) PHY 1410 MTH 0304	 Discussion
0304	Peter Shawhan MWF 12:00pm - 12:50pm F 3:00pm - 3:50pm	Seats (Total: 35) PHY 1410 MTH 0304	 Discussion

PHYS271 General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS270 and PHYS271.

Students must pay a $50.00 laboratory materials fee.

0102	Sungwoo Hong M 3:00pm - 5:50pm	Seats (Total: 36) PHY 3213	Lab
0103	Sungwoo Hong M 6:00pm - 8:50pm	Seats (Total: 36) PHY 3213	Lab
0104	Sungwoo Hong W 4:00pm - 6:50pm	Seats (Total: 36) PHY 3213	Lab
0105	Sungwoo Hong Tu 10:00am - 12:50pm	Seats (Total: 36) PHY 3213	Lab
0106	Sungwoo Hong Tu 1:00pm - 3:50pm	Seats (Total: 36) PHY 3213	Lab
0117	Sungwoo Hong Th 11:00am - 1:50pm	Seats (Total: 36) PHY 3213	Lab
0118	Sungwoo Hong Th 2:00pm - 4:50pm	Seats (Total: 36) PHY 3213	Lab

PHYS271M **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

(Perm req)

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

General Education: DSNL

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester and the grade for the courses will be combined into a single grade for both. To pass, students must complete passing work in both PHYS270 and PHYS271.

0101	Sungwoo Hong	Seats (Total: 10)
	Contact instructor or department for details.	
	Restricted to students transferring a lab grade from a previous semester.	

PHYS272 **Introductory Physics: Fields**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

Also offered as PHYS 272H.

0101	Gregory Sullivan	Seats (Total: 56)
	TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	PHY 1201 PHY 1201
0201	James Williams	Seats (Total: 0)
	TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	PHY 1219 PHY 1219

PHYS272H **Introductory Physics: Fields**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNL (if taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

For general honors students only. Also offered as PHYS 272.

0101	Gregory Sullivan TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 56) PHY 1201 PHY 1201
0201	James Williams TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 0) PHY 1219 PHY 1219

PHYS273 **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: MATH246 or MATH414. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

Also offered as PHYS 273H.

0101	Thomas Cohen TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 55) PHY 1204 PHY 1201

PHYS273H **Introductory Physics: Waves**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: MATH246 or MATH414. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series an integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

For general honors students only. Also offered as PHYS 273.

0101	Thomas Cohen TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 55) PHY 1204 PHY 1201

PHYS274 **Mathematical Methods for Physics I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

A first course in mathematical methods for physics. Topics include linear algebra, curvilinear coordinates and vector analysis, and an introduction to ordinary differential equations.

0101	Zackaria Chacko MWF 12:00pm - 12:50pm	Seats (Total: 50) CSS 1113	

PHYS275 **Experimental Physics I: Mechanics and Heat**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS161 or PHYS171; and PHYS174. Additional information: CORE Physical Science Lab (PL) Course only when taken concurrently with PHYS272.

Methods and rationale of experimental physics. Intended for physics majors and science and engineering students who desire a more rigorous approach. Experiments chosen from the areas of mechanics (from PHYS171), gas laws, and heats. Theory and applications of error analysis.

0101	Min Ouyang M 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	Lab
0201	Min Ouyang W 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	Lab
0301	Arpita Upadhyaya Tu 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	Lab
0401	Arpita Upadhyaya Th 2:00pm - 5:50pm	Seats (Total: 11) PHY 3104	Lab

PHYS276 **Experimental Physics II: Electricity and Magnetism**

(Perm req)

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS272 and PHYS275.

Second course in the three semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the fields of electricity and magnetism including electrostatics, magnetostatics, magnetic induction, AC circuits.

0101	Vladimir Manucharyan M 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	Lab

0201	Frederick Wellstood Tu 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab
0301	Frederick Wellstood F 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab
0401	Vladimir Manucharyan W 2:00pm - 5:50pm	Seats (Total: 12) PHY 3120	 Lab

PHYS299 **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS305 **Physics Shop Techniques**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Permission of CMNS-Physics department.

Machine tools, design and construction of laboratory equipment.

0101	Lester Putnam Contact instructor or department for details.	Seats (Total: 1)

PHYS371 **Modern Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273; and PHYS274. Corequisite: PHYS373.

The fourth semester of the introductory sequence for physics majors; introduces special relativity and elementary aspects of quantum physics.

0101	Paulo Bedaque MWF 1:00pm - 1:50pm	Seats (Total: 45) PHY 1204

PHYS373 **Mathematical Methods for Physics II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273; and must have completed PHYS274.

A second course in mathematical methods for physics. Topics include Fourier Analysis, Power Series Solution of Differential Equations, Partial Differential Equations, and Complex Analysis.

0101	Ki-Yong Kim TuTh 11:00am - 12:15pm	Seats (Total: 68) PHY 1201	
0201	Instructor: TBA	Seats (Total: 36)	

PHYS375 **Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: PHYS276 and PHYS273.

Third course in the three-semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the areas of electromagnetic waves, optics and modern physics.

Besides lab hours scheduled below, additional required lab time will be arranged.

0101	Carter Hall M 2:00pm - 2:50pm M 3:00pm - 5:50pm	Seats (Total: 12) PHY 1410 PHY 3203	 Lab
0102	Carter Hall M 2:00pm - 2:50pm W 3:00pm - 5:50pm	Seats (Total: 12) PHY 1410 PHY 3203	 Lab
0103	Carter Hall M 2:00pm - 2:50pm Tu 3:00pm - 5:50pm	Seats (Total: 12) PHY 1410 PHY 3203	 Lab
0104	Carter Hall M 2:00pm - 2:50pm Th 3:00pm - 5:50pm	Seats (Total: 12) PHY 1410 PHY 3203	 Lab

PHYS386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail

Contact department for information to register for this course.

PHYS389 **Undergraduate Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Independent directed research and study on a topic selected by the student in consultation with his or her advisor. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

PHYS398 **Independent Studies Seminar**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Credit according to work done. Enrollment is limited to students admitted to the independent studies program in physics.

Contact department for information to register for this course.

PHYS399 **Special Problems in Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

Contact department for information to register for this course.

PHYS401 **Quantum Physics I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273. Corequisite: PHYS374 and MATH240. Formerly: PHYS421.

Introduces some quantum phenomena leading to wave-particle duality. Schroedinger theory for bound states and scattering in one dimension. One-particle Schroedinger equation and the hydrogen atom.

0101	Steven Rolston	Seats (Total: 68)
	MWF 10:00am - 10:50am	PHY 1201
	W 11:00am - 11:50am	PHY 1201

PHYS402 **Quantum Physics II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS401, PHYS374, and MATH240.

Quantum states as vectors; spin and spectroscopy, multiparticle systems the periodic table, perturbation theory, band structure, etc.

0101	Victor Galitskiy	Seats (Total: 45)
	MWF 10:00am - 10:50am	PHY 1402
	W 11:00am - 11:50am	PHY 1402

PHYS404 **Introduction to Statistical Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS273; or students who have taken courses with comparable content may contact the department.

Introduction to basic concepts in thermodynamics and statistical mechanics.

0101	Ian Appelbaum	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	PHY 1402

PHYS405 **Advanced Experiments**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS375. Restriction: Must be in a major within CMNS-Physics department.

Advanced laboratory techniques. Selected experiments from many fields o modern physics. Emphasis on self-study of the phenomena, data analysis, and presentation in report form.

0101	Abolhassan Jawahery	Seats (Total: 14)	
	W 12:00pm - 12:50pm	PHY 1219	Lab
	TBA	PHY 3112	Lab

PHYS407 **Undergraduate Experimental Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: PHYS499 and PHYS375; and permission of CMNS-Physics department. Restriction: Must be in a major within CMNS-Physics department; and senior standing.

Students develop and complete an independent, experimental research project with a professor in the Physics Department. The project should be a continuation of work done in PHYS499A. To obtain permission, students must submit a proposal describing the experimental work to be completed and this proposal must be approved by their faculty mentor, the associate chair for undergraduate education and the chair of the laboratory committee. Students must maintain a lab notebook, give an oral presentation and complete a written report on their research that includes data and error analysis.

0101	Thomas Cohen	Seats (Total: 10)
	Contact instructor or department for details.	

PHYS410 **Classical Mechanics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS374.

Theoretical foundations of mechanics with extensive application of the methods. Various mathematical tools of theoretical physics.

0101	Steven Anlage	Seats (Total: 45)
	TuTh 9:00am - 10:50am	PHY 1402

PHYS411 **Intermediate Electricity and Magnetism**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS374.

Foundations of electromagnetic theory, with extensive applications of the methods. Thorough treatment of wave properties of solutions of Maxwell's equations.

0101	Edward Ott	Seats (Total: 49)	
	TuTh 11:00am - 11:50am	PHY 1402	
	M 11:00am - 11:50am	PHY 1402	
	F 11:00am - 11:50am	PHY 1402	Discussion

PHYS420 **Principles of Modern Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH246. And PHYS271 and PHYS270; or PHYS273.

A survey of atomic and nuclear phenomena and the main trends in modern physics. Appropriate for students in engineering and other physical sciences.

0101	Kara Hoffman	Seats (Total: 40)
	MW 3:30pm - 4:45pm	PHY 0405

PHYS431 **Properties of Matter**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241; and (PHYS401 or PHYS420). Also offered as: ENMA460. Credit only granted for: ENMA460 or PHYS431.

Introduction to solid state physics. Electromagnetic, thermal, and elastic properties of metals, semiconductors, insulators and superconductors.

0101	Ichiro Takeuchi	Seats (Total: 15)
	MW 5:00pm - 6:15pm	CHE 2108

PHYS442 **Introduction to the Standard Model of Particle Physics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS401. Corequisite: PHYS402.

Introduction to modern theories about the particles and forces that make up this universe, from Rutherford Scattering to an "(almost) theory of everything (visible)" known as the standard model of particle physics, as well as production, detection and properties of fundamental particles. Discussion of problems and puzzles related to the standard model, such as why some particles have mass or why gravity is so much weaker than other forces, and solutions to these problems, such as the Higgs boson, supersymmetry, quantum gravity and string theory.

0101	Shabnam Jabeen	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	MTH 0401

PHYS485 **Electronic Circuits**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS405. Corequisite: PHYS374. Restriction: Must be in a major within CMNS-Physics department.

Theory and application to experimental physics of modern semiconductor analog and digital circuits. Emphasis on understanding passive and active elements in practical circuits. Topics span the range from simple transistor circuits to microcomputers.

Additional Note: Also offered as PHYS685. Credit only granted for PHYS485 or PHYS685.

0101	Daniel Lathrop	Seats (Total: 24)	
	MF 2:00pm - 2:50pm W 1:00pm - 4:50pm	PHY 0405 PHY 3321	 Lab

PHYS499A **Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499B **Special Problems in Physics**

(Perm req)

Credits: 1-16 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499L **Special Problems in Physics; Introduction to Lasers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Research or special study. Credit according to work done.

Also offered as ENEE496. Credit will only be granted for PHYS499L or ENEE496.

0101	Howard Milchberg	Seats (Total: 20)	
	MW 3:00pm - 4:15pm	PHY 1204	

PHYS601 **Theoretical Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS410; or students who have taken courses with comparable content may contact the department.

Lagrangian and Hamiltonian mechanics, two-body central force problem, rigid body motion, small oscillations, continuous systems.

0101	Kaustubh Agashe	Seats (Total: 49)
	TuTh 12:30pm - 1:45pm	HBK 0115

PHYS604 **Methods of Mathematical Physics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed coursework in advanced calculus; and (PHYS411 and PHYS410). Or students who have taken courses with comparable content may contact the department.

Ordinary and partial differential equations of physics, boundary value problems, Fourier series, Green's functions, complex variables and contour integration.

0101	Adil Hassam	Seats (Total: 50)
	TuTh 9:30am - 10:45am	CSS 1113

PHYS605 **Graduate Physics Shop Techniques**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

Restriction: Permission of CMNS-Physics department. Also offered as: PHYS305.

Proper use of machine tools to manufacture parts from metal alloys, and the importance and proper use of engineering documentation in the development process.

0101	Lester Putnam	Seats (Total: 3)
	Contact instructor or department for details.	

PHYS615 **Nonlinear Dynamics of Extended Systems**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS601.

Theory and applications of nonlinear dynamics of extended systems including nonlinear waves, pattern formation, turbulence, self-organized criticality and networks. Additional topics to be selected by instructor from areas of current research.

0101	Michelle Girvan	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	PHY 1204

PHYS622 **Introduction to Quantum Mechanics I**

(Perm req)

Credits: 4 Grading Method: Regular, Audit

Prerequisite: Must have an outstanding undergraduate background in physics.

First and second semesters. A study of the Schroedinger equation, matrix formulations of quantum mechanics, approximation methods, scattering theory, etc. Applications to solid state, atomic, and nuclear physics.

0201	Jay Sau	Seats (Total: 55)
	MW 10:00am - 10:50am	PHY 1204
	F 10:00am - 11:50am	PHY 1204

PHYS624 **Advanced Quantum Mechanics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS623.

Relativistic wave equations, second quantization in many body problems and relativistic wave equations, Feynman-Dyson perturbation theory, applications to many body problems, application to quantum electrodynamics, elements of renormalization.

0101	Theodore Jacobson	Seats (Total: 38)
	TuTh 9:30am - 10:45am	PSC 3150

PHYS675 **Introduction to Relativity, Gravitation and Cosmology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS606 and PHYS601.

Review of special relativity, followed by a study of the equivalence principle, curved spacetimes, and Einstein's equations. Selected applications to the solar system, stellar structure, black holes, gravitational waves, and cosmology.

0101	Jonathan McKinney	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	PHY 1219

PHYS685 **Research Electronics**

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: PHYS374 or PHYS405; or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed PHYS485. Credit only granted for: PHYS485 or PHYS685.

An integrated lecture and laboratory course in electronics with equal emphasis on experimental methods and results and analysis using device models and up-to-date mathematical and numerical tools. Experiments and analysis of circuits with passive and single active devices form the background for the study of operational amplifiers, digital integrated circuits and systems, and microcomputers. The general topics of impedance matching, frequency response, feedback, interfacing and the extraction of signal from noise are stressed.

Additional Note: Also offered as PHY485. Credit only granted for PHYS685 or PHYS485.

0101	Daniel Lathrop	Seats (Total: 24)	
	MF 2:00pm - 2:50pm W 1:00pm - 4:50pm	PHY 0405 PHY 3321	 Lab

PHYS709 **Seminar in General Physics; Statistical Physics**

Credits: 1 Grading Method: Regular, Audit

Also offered as CHPH709B.

0101	John Weeks	Seats (Total: 30)
	Tu 1:15pm - 2:30pm	IPT 1116

PHYS721 **Atomic and Optical Physics I (Survey)**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS623.

A survey of topics involving the physics of atoms and their interaction with radiation, including atoms in external fields, lasers, atomic spectroscopy and atomic structure.

0101	Alexey Gorshkov, Ian Spielman	Seats (Total: 30)
	MW 2:30pm - 3:50pm	PHY 1219

PHYS728 **Seminar in Atomic and Molecular Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Steven Rolston	Seats (Total: 30)
	M 11:00am - 12:50pm	CSS 2400

PHYS738 **Seminar in Experimental Solid State Physics; Quantum Mechanical Many-Body Problems**

Credits: 1 Grading Method: Regular, Audit

Also offered as PHYS 739.

0101	Vladimir Manucharyan, James Williams	Seats (Total: 30)
	Th 2:00pm - 3:50pm	PHY 1201

PHYS739 **Seminar in Theoretical Solid State Physics; Quantum Mechanical Many-Body Problems**

Credits: 1 Grading Method: Regular, Audit

Also offered as PHYS 738.

0101	Vladimir Manucharyan, James Williams	Seats (Total: 30)
	Th 2:00pm - 3:50pm	PHY 1201

PHYS748 **Seminar in Experimental Nuclear Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Carter Hall, Elizabeth Beise	Seats (Total: 24)
	W 2:30pm - 4:00pm	PHY 2202

PHYS749 **Seminar in Theoretical Nuclear Physics**

Credits: 1 Grading Method: Regular, Audit

0101	Xiangdong Ji	Seats (Total: 20)
	W 4:00pm - 6:00pm	PHY 1219

PHYS758E **Seminar in Elementary Particles and Quantum Field Theory; Seminar in Elementary Particles and Quantum Field Theory**

Credits: 1 Grading Method: Regular, Audit

0101	Alberto Belloni W 4:00pm - 6:00pm	Seats (Total: 25) PHY 1201

PHYS759 **Seminar in Elementary Particles and Quantum Field Theory**

Credits: 1 Grading Method: Regular, Audit

0101	Kaustubh Agashe M 3:00pm - 4:00pm	Seats (Total: 15) PSC 3150

PHYS762 **Plasma Physics II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PHYS761.

Continuation of PHYS 761. Vlasov theory, including waves, stability, and weak turbulence, kinetic equation theories of correlations and radiative processes.

0101	James Drake TuTh 2:00pm - 3:15pm	Seats (Total: 20) PHY 1304

PHYS769 **Seminar in Plasma Physics**

Credits: 1 Grading Method: Regular, Audit

Class will meet in ERF 1207.

0101	Adil Hassam W 4:00pm - 5:15pm	Seats (Total: 35) PHY 1402

PHYS798 **Special Problems in Advanced Physics**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798B **Special Problems in Advanced Physics; Physics Colloquium**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Thomas Cohen	Seats (Total: 160)
	Tu 4:00pm - 6:00pm	PHY 1410

PHYS798D **Special Problems in Advanced Physics; Applied Dynamics Seminar**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Edward Ott, Daniel Lathrop	Seats (Total: 10)
	Th 12:30pm - 1:30pm	ERF 1207

PHYS798L **Special Problems in Advanced Physics; Biophysics**

Credits: 1 Grading Method: Regular, Audit

Projects or special study in advanced physics.

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	IPT 1116

PHYS799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHYS838C **Special Topics in Experimental Solid State Physics; Superconductivity, Quantum Materials and Nanoscience Seminar**

Credits: 2 Grading Method: Regular, Audit

Credit according to work done.

0101	Christopher Lobb	Seats (Total: 50)
	M 4:00pm - 5:50pm	PHY 1201

PHYS839A **Special Topics in Theoretical Solid State Physics; Theory of Low Dimensional Systems**

Credits: 1 Grading Method: Regular, Audit

Credit according to work done.

0101	Sankar Das Sarma F 4:00pm - 7:00pm	Seats (Total: 20) PHY 1201

PHYS859 **Special Topics in Elementary Particles and Quantum Field Theory; Non-perturbative and Higher-Dimensional Aspects of Fundamental Physics**

Credits: 1-4 Grading Method: Regular, Audit

Credit according to work done.

0101	Raman Sundrum TuTh 11:00am - 12:30pm	Seats (Total: 10) PSC 3150

PHYS859I **Special Topics in Elementary Particles and Quantum Field Theory; An Introduction To Basic String Theory**

Credits: 3 Grading Method: Regular, Audit

Credit according to work done.

0101	Sylvester Gates W 3:30pm - 6:30pm	Seats (Total: 20) PHY 1304

PHYS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PLSC Plant Sciences Fall 2015

PLSC101 **Introductory Crop Science**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Major crop plants including: anatomy, physiology, morphology, history, use, adaptation, culture, improvement and economic importance.

Students must pay a $50.00 laboratory materials fee.

0101	William Phillips MWF 10:00am - 10:50am M 11:00am - 12:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0102	William Phillips MWF 10:00am - 10:50am W 11:00am - 12:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0103	William Phillips MWF 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab
0104	William Phillips MWF 10:00am - 10:50am M 1:00pm - 2:50pm	Seats (Total: 24) PLS 1140 PLS 1153	 Lab

PLSC115 **How Safe is Your Salad? The Microbiological Safety of Fresh produce**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: LS	General Education: DSNS, SCIS

Recommended: PLSC100, PLSC101, or BSCI105.

As food is produced in larger quantities and made to travel longer distances, keeping our food safe in this day and age is an ever growing challenge. This course will focus on the question of what it takes to grow and maintain safe fruits and vegetables, as food travels along the path from the farm to your fork. Food safety of fresh produce will be discussed from the public health, agricultural, economical and policy perspectives.

0101	Shirley Micallef Tu 11:00am - 12:15pm W 3:00pm - 4:15pm	Seats (Total: 20) PLS 1130 JMZ 1117	 Discussion
0102	Shirley Micallef Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 20) PLS 1130 PLS 1111	 Discussion

0103	Shirley Micallef	Seats (Total: 20)	
	Tu 11:00am - 12:15pm Th 2:00pm - 3:15pm	PLS 1130 EDU 3236	Discussion

PLSC120 **Mushrooms and Molds**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Students will learn about how essential fungi (mushroom, molds, and alikes) are in this world and how they affect our daily lives. They will learn how fungi interact with animals, plants and other organisms in positive and negative ways. Also, they will study the importance of fungi in biotechnology and food and how they have shaped many societies throughout history.

0101	Priscila Chaverri	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	PLS 1117	
	The course will have a blended instruction format with online and in-class lectures, and one or two field outings and laboratories."		

PLSC125 **Feeding Nine Billion by 2050: Food Security and Crop Protection**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSNS, SCIS

A big question in global food security is "how can we feed 9 billion people in 2050?" This course will stimulate creative thinking about possible solutions particularly from the crop production perspective. The instructor will introduce the concept of food security and different dimensions of this complex issue, identify major constraints to food security, and discuss scientific approaches that may be used to meet the grand challenge. Emphasis will be placed on topical and controversial issues such as the impact of biofuel production and GM crops on food security, and novel strategies that can enhance crop protection for improving food security.

0101	Burkhard Schulz, Shunyuan Xiao	Seats (Total: 35)	
	Tu 9:30am - 10:45am Th 9:30am - 10:45am	MMH 1400 ASY 3211	Discussion
0102	Burkhard Schulz, Shunyuan Xiao	Seats (Total: 35)	
	Tu 9:30am - 10:45am Th 9:30am - 10:45am	MMH 1400 TYD 2106	Discussion
0103	Burkhard Schulz, Shunyuan Xiao	Seats (Total: 35)	
	Tu 9:30am - 10:45am Th 9:30am - 10:45am	MMH 1400 SQH 1117	Discussion

PLSC201 **Plant Structure and Function**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100; or PLSC101. And CHEM103; or CHEM131. And CHEM132.

The relationship between plant structure and function and how the environment influences changes in the physiology to control higher plant growth and development are studied.

0101	Jianhua Zhu, Joseph Sullivan MWF 10:00am - 10:50am W 2:00pm - 4:50pm	Seats (Total: 16) PLS 1119 RGC 1111	 Lab
0102	Joseph Sullivan, Jianhua Zhu MWF 10:00am - 10:50am Th 12:30pm - 3:15pm	Seats (Total: 16) PLS 1119 RGC 1111	 Lab

PLSC203 **Plants, Genes and Biotechnology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Prerequisite: BSCI103 or BSCI105.

An overview of the history, genetics, and reproductive mechanisms for agronomic and horticultural plants that examines mechanisms of genetic improvement ranging from traditional plant breeding to tissue culture and genetic engineering. Social and political issues such as germplasm preservation and international intellectual property rights will also be discussed.

0101	Gary Coleman TuTh 3:30pm - 4:45pm	Seats (Total: 23) PLS 1176	

PLSC251 **Financial Applications for the Green Industry**

Credits: 3 Grading Method: Regular General Education: DSSP

Credit only granted for: PLSC361 or PLSC251. Formerly: PLSC361.

An introduction to the application of financial principles in the Green Industry business sector. Accounting, pricing, and estimating, job cost management and production efficiency are discussed and manifested in Scholarship In Practice exercises, case studies and a business plan project.

0101	Steven Cohan MW 12:00pm - 12:50pm W 1:00pm - 3:50pm	Seats (Total: 30) PLS 1117 PLS 1119	 Lab

PLSC253 **Woody Plants for Mid-Atlantic Landscapes I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC100.

A field and laboratory study of trees, shrubs, and vines used in ornamental plantings. Major emphasis is placed on native deciduous plant materials.

0101	Lea Johnson MF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1153	Lab
0102	Lea Johnson MF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1184	Lab
0103	Lea Johnson MF 1:00pm - 1:50pm F 2:00pm - 4:50pm	Seats (Total: 24) PLS 1140 PLS 1146	Lab

PLSC289I **Greening Cities: Who Wins, Who Loses, and Who Cares?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSSP, SCIS

0101	David Myers TuTh 3:30pm - 4:45pm	Seats (Total: 120) SHM 2102

PLSC303 **Global Food Systems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Prerequisite: BSCI105; or students who have taken courses with comparable content may contact the department.

An introduction to the global food system and its agricultural, biophysical, and socioeconomic domains. The problems and potentials for increasing world food supply based on current agronomic knowledge. Emphasis on international aspects of food crop production as its interrelationships with people and the environment in the developing world.

0101	Kate Tully TuTh 2:00pm - 3:15pm	Seats (Total: 20) PLS 1164

PLSC305 **Introduction to Turf Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Principles of turf culture. Identification and uses of turfgrass species; turfgrass fertilization, cultivation, mowing and establishment; and the identification of turf pests.

0101	Justin Mathias, Mark Carroll	Seats (Total: 24)	
	Tu 5:00pm - 7:00pm Th 5:00pm - 7:00pm	PLS 1119 PBR 1102	Lab

PLSC389 **Internship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit will be given for practical work carried out at one or more horticultural, agronomic, landscape industries, botanical gardens, or arboreta under formally arranged internships.

0101	Steven Cohan	Seats (Total: 20)
	W 9:00am - 9:50am Contact instructor or department for details.	PLS 1119

PLSC399 **Special Problems in Plant Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.

Contact department for information to register for this course.

PLSC402 **Sports Turf Management**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC305 and PLSC401.

Sports turf management, including design, construction, soil modification, soil cultural techniques, pesticide use, fertilization, and specialized equipment.

0101	Thomas Turner	Seats (Total: 20)
	TuTh 9:30am - 10:45am	PBR 1102

PLSC420 **Principles of Plant Pathology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131, CHEM132, and PLSC201; or students who have taken courses with comparable content may contact the department.

An introduction to the causal agents, nature and management of plant diseases with particular attention paid to economically important diseases of horticultural and agronomic crops.

0101	Cassandra Swett, Shunyuan Xiao, James Culver	Seats (Total: 18)	
	TuTh 1:00pm - 2:15pm Tu 2:30pm - 5:15pm	PLS 1111 PLS 1153	Lab
0102	Shunyuan Xiao, James Culver, Cassandra Swett	Seats (Total: 18)	
	TuTh 1:00pm - 2:15pm Th 2:30pm - 5:15pm	PLS 1111 PLS 1153	Lab

PLSC433 **Technology of Fruit and Vegetable Production**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PLSC201, NRSC411, PLSC271, and PLSC202; or students who have taken courses with comparable content may contact the department. Corequisite: BSCI442. Recommended: ENST200. Restriction: Junior standing or higher. Credit only granted for: NRSC411 or PLSC433.

A critical analysis of research work and application of the principles of plant physiology, chemistry and botany to practical problems in the commercial production of fruit and vegetable crops.

Students must pay a $100.00 laboratory materials fee.

0101	Christopher Walsh	Seats (Total: 9)	
	MW 11:00am - 12:15pm W 1:00pm - 4:50pm	PLS 1119 PLS 0123	Lab

PLSC453 **Weed Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Weed identification, ecology, and control (cultural, mechanical, biological, and chemical methods).

0101	William Phillips	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	PLS 1111	
	Tu 11:00am - 12:50pm	PLS 1153	Lab

PLSC489B **Special Topics in Plant Science; Private and Public Sector Applications**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan	Seats (Total: 5)
	Contact instructor or department for details.	

PLSC489D **Special Topics in Plant Science; Low Maintenance Plant Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan	Seats (Total: 5)
	Contact instructor or department for details.	

PLSC489G **Special Topics in Plant Science; Communications in the Green Industry**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan	Seats (Total: 10)
	Contact instructor or department for details.	

PLSC489K **Special Topics in Plant Science; Leadership Workshop**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

Development of leadership skills within an interactive learning environmment.

0101	Steven Cohan **Meets October 16, 2015 - October 17, 2015** Contact instructor or department for details.	Seats (Total: 50)

PLSC489N **Special Topics in Plant Science; Communication in the Green Industry II**

(Perm req)

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan Contact instructor or department for details.	Seats (Total: 10)

PLSC489P **Special Topics in Plant Science; Pro Golf Turf**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Mark Carroll Contact instructor or department for details.	Seats (Total: 5)

PLSC608 **Research Methods**

Credits: 2 Grading Method: Regular, Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

Prerequisite: permission of department. Repeatable to 6 credits if content differs. Credit will be granted for only one of the following: AGRO608, NRSC608, or PLSC608. Formerly NRSC608.

0101	Angus Murphy Tu 3:30pm - 5:30pm	Seats (Total: 20) PLS 2107

PLSC608T **Research Methods; Supervised Teaching**

(Perm req)

Credits: 2 Grading Method: Regular, Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

Prerequisite: permission of department.

0103	Angus Murphy Contact instructor or department for details.	Seats (Total: 5)
0104	Mark Carroll Contact instructor or department for details.	Seats (Total: 5)
6201	Jianhua Zhu Contact instructor or department for details.	Seats (Total: 5)

PLSC689A **Special Topics; Seminars in Plant Science and Landscape Architecture**

Credits: 1 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Shirley Micallef Th 4:00pm - 4:50pm Th 5:00pm - 5:50pm	Seats (Total: 60) PLS 1140 PLS 1140	 Discussion

PLSC689B **Special Topics; Signal Transduction Pathways in Plant Abiotic Stresses Responses**

Credits: 2 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Jianhua Zhu M 3:00pm - 4:50pm	Seats (Total: 10) EGR 3111

PLSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PLSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PLSC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PORT Portuguese Fall 2015

PORT104 **Intensive Elementary Portuguese**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.

Covers speaking, reading, writing, listening, and culture of Portuguese-speaking world.

0101	Thayse Lima	Seats (Total: 25)
	TuTh 11:00am - 12:15pm W 11:00am - 11:50am	JMZ 2207 JMZ 0103

PORT205 **Intermediate Reading and Conversation in Portuguese I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: PORT204; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Development of spoken Portuguese at intermediate level based on written assignments and exams on readings in a variety of genres.

0101	Regina Igel	Seats (Total: 20)
	Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	JMZ 0125 JMZ 1224

PORT228C **Selected Topics in Latin American Literature and Society; Cannibals, Savages and Carnivalization: the Making of Brazilian Culture**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSHU

Variable cultural studies topics on literature and society in contemporary Latin America. Taught in English.

This course explores the ways in which cultural cannibalism; savagery and carnivalization have been used as symbolic frameworks in the construction of Brazilian national identity. Through analyses of film, literature, music and visual arts, we will examine how these notions have been deployed at times to reinforce, and at others, to cast doubt on official narratives of modernization, racial democracy, economic development and political emancipation. The material selected will provide students with a solid knowledge of the main concepts, cultural movements and ideas that have contributed to shape Brazilian modern culture. Furthermore, this course will allow participants to develop a critical perspective on processes of construction and contestation of national narratives of identity.

0101	Thayse Lima	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 3120

PORT228I **Selected Topics in Latin American Literature and Society; An Interdisciplinary Approach to the Amazon Ecosystem**

Credits: 3 Grading Method: Regular, Pass-Fail

Variable cultural studies topics on literature and society in contemporary Latin America. Taught in English.

Also offered as LASC248E. Credit will only be given for PORT228I or LASC248E. This course focuses on writings, videos and movies that provide a concept and a set of cultural values related to the Amazonian ecosystem encompassing several countries in South America. The course has three main components: 1. It draws insights on the ecology of South American rain forest, on the relationships and frictions between the natural environment and human inhabitants and/or predators, and on teh dominant and subordinate cultures in the region; 2. It approaches students to viewpoints expressed by US and non-US scientific explorers, historians, travelers, researchers, adventurers and fictionists, laborers, and Amerindians' (Indians) advocates; 3. It examines folktales, narratives and testimonials by Indigenous people and other inhabitants of the region. The course is developed through lectures, class discussions, readings, writing of journals and the viewing of documentaries, videos and motion pictures set in or about the Amazonian region.

0101	Regina Igel	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 2206

PORT386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department; and junior standing or higher.

Contact department for information to register for this course.

PORT399 **Independent Study in Portuguese**

(Perm req) Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature under the supervision of a faculty member of the department.

Contact department for information to register for this course.

PSYC Psychology Fall 2015

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available. The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

PSYC100 Introduction to Psychology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSNS

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

Discussion sections do not meet until after first lecture. Research requirement: may involve participation in research.

Click here for more course information.

0101	Ryan Curtis W 4:00pm - 5:20pm F 8:00am - 8:50am Class time/details on ELMs	Seats (Total: 27) BRB 1101 BPS 1238 ONLINE	 Discussion Discussion
0102	Ryan Curtis W 4:00pm - 5:20pm F 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 27) BRB 1101 BPS 1238 ONLINE	 Discussion Discussion
0103	Ryan Curtis W 4:00pm - 5:20pm F 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 27) BRB 1101 BPS 0283 ONLINE	 Discussion Discussion
0104	Ryan Curtis W 4:00pm - 5:20pm F 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 27) BRB 1101 BPS 1236 ONLINE	 Discussion Discussion

0105	Ryan Curtis	Seats (Total: 27)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0106	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 8:00am - 8:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0107	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0108	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0109	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 2:00pm - 2:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0110	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0201	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0202	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 10:00am - 10:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion

0203	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1228	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0204	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 12:00pm - 12:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0205	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0206	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0207	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 10:00am - 10:50am	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0208	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1228	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0209	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 12:00pm - 12:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0210	Dylan Selterman	Seats (Total: 30)	
	Th 3:30pm - 4:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BPS 0283	Discussion
	Class time/details on ELMs	ONLINE	Discussion

FC01	Scott Roberts MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 40) BPS 0283
FC02	Scott Roberts MW 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) BPS 0283

PSYC123 **The Psychology of Getting Hired**

Credits: 1 Grading Method: Regular

Designed to introduce students to the science behind the hiring process and to prepare individuals with the academic and practical training required. Together we will explore psychological principles that influence the selection process and how individuals can apply them for the competitive edge that makes others Fear the Turtle!

0101	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0201	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0301	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0401	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0501	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0601	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0701	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE
0801	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE

0901	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE	
1001	Kelley Bishop Class time/details on ELMs	Seats (Total: 50) ONLINE	

PSYC200 **Statistical Methods in Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: PSYC100; and 1 course with a minimum grade of C- from (MATH220, STAT100, MATH111, MATH130, MATH140). Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

A basic introduction to quantitative methods used in psychological research.

Restricted to PSYC, ENSP and BSCI majors. All other majors require permission in BPS 1107.

Click here for sample course syllabus.

0101	Tracy Tomlinson TuTh 8:00am - 9:15am M 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1238 ONLINE	 Discussion Discussion
0102	Tracy Tomlinson TuTh 8:00am - 9:15am M 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1228 ONLINE	 Discussion Discussion
0103	Tracy Tomlinson TuTh 8:00am - 9:15am M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1238 ONLINE	 Discussion Discussion
0104	Tracy Tomlinson TuTh 8:00am - 9:15am M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 0283 ONLINE	 Discussion Discussion

0105	Tracy Tomlinson TuTh 8:00am - 9:15am M 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1238 ONLINE	 Discussion Discussion
0201	Tracy Tomlinson TuTh 9:30am - 10:45am M 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1228 ONLINE	 Discussion Discussion
0202	Tracy Tomlinson TuTh 9:30am - 10:45am M 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1232 ONLINE	 Discussion Discussion
0203	Tracy Tomlinson TuTh 9:30am - 10:45am M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) BPS 1250 PLS 1113 ONLINE	 Discussion Discussion
0204	Tracy Tomlinson TuTh 9:30am - 10:45am M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1228 ONLINE	 Discussion Discussion
0205	Tracy Tomlinson TuTh 9:30am - 10:45am M 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 25) BPS 1250 BPS 1236 ONLINE	 Discussion Discussion

PSYC206 **Developmental Biopsychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Biological basis of behavioral development in relation to genetic, constitutional, anatomical, physiological, and environmental factors. Emphasis upon both phylogenetic and ontogenetic research findings in biological psychology.

For PSYC majors only.

0101	Steven Brauth TuTh 12:30pm - 1:45pm	Seats (Total: 27) BPS 1232	

PSYC221 **Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Click here for sample course syllabus.

0101	Jennifer Wessel TuTh 8:00am - 9:15am	Seats (Total: 150) JMZ 0220	
0201	Dylan Selterman MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 150) BPS 1250 BPS 1250	 Discussion
FC01	Dylan Selterman TuTh 6:00pm - 7:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 40) BPS 1243	

PSYC221H **Social Psychology**

(Perm req)

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

Open to students in the University Honors programs only.

0101	Charles Stangor M 2:00pm - 4:30pm	Seats (Total: 15) BPS 1234

PSYC289D **Living the Good Life: The Psychology of Happiness**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

0101	Nazish Salahuddin TuTh 2:00pm - 3:15pm	Seats (Total: 123) BPS 1250	

PSYC300 **Research Methods in Psychology Laboratory**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Prerequisite: PSYC200. Restriction: Must be in Psychology program. Credit only granted for: PSYC300 or PSYC309R. Formerly: PSYC309R.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

For PSYC majors only.

0101	Edward Bernat MW 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 14) BPS 1243 EGR 1102	Discussion
0102	Edward Bernat MW 1:00pm - 1:50pm Th 10:00am - 11:50am	Seats (Total: 14) BPS 1243 MTH 0401	Discussion
0103	Edward Bernat MW 1:00pm - 1:50pm Th 2:00pm - 3:50pm	Seats (Total: 14) BPS 1243 MTH B0425	Discussion
0104	Edward Bernat MW 1:00pm - 1:50pm F 10:00am - 11:50am	Seats (Total: 14) BPS 1243 MTH 0106	Discussion
0105	Edward Bernat MW 1:00pm - 1:50pm Th 12:00pm - 1:50pm	Seats (Total: 14) BPS 1243 PLS 1158	Discussion
0106	Edward Bernat MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	Seats (Total: 14) BPS 1243 BPS 1234	Discussion
0201	Edward Bernat MW 11:00am - 11:50am W 2:00pm - 3:50pm	Seats (Total: 14) CHE 2108 BPS 1232	Discussion

0202	Edward Bernat MW 11:00am - 11:50am F 10:00am - 11:50am	Seats (Total: 14) CHE 2108 BPS 1232	Discussion
0203	Edward Bernat MW 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 14) CHE 2108 BPS 1232	Discussion
0204	Edward Bernat MW 11:00am - 11:50am F 2:00pm - 3:50pm	Seats (Total: 14) CHE 2108 BPS 1232	Discussion
0205	Edward Bernat MW 11:00am - 11:50am W 4:00pm - 5:50pm	Seats (Total: 14) CHE 2108 BPS 1232	Discussion
0206	Edward Bernat MW 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 14) CHE 2108 PLS 1162	Discussion

PSYC301 **Biological Basis of Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100 and BSCI105.

An introduction to the anatomical structures and physiological processe that determine behavior. After a study of the basic functioning of the nervous system, the course will examine the acquisition and processing of sensory information, the neural control of movement, and the biological bases of complex behaviors such as sleep, learning, memory, sex, language, and addiction.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Dirk Parham MW 5:00pm - 6:15pm	Seats (Total: 135) BPS 1250	

PSYC302 **Fundamentals of Learning and Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100 and BSCI105. Restriction: Restricted to psychology majors during the registration period. All other majors will be placed on a hold file. Credit only granted for: PSYC309F or PSYC302. Formerly: PSYC309F.

Overview of the fundamental types of learning that occur without formal instruction. The course covers fundamentals of classical and instrumental conditioning as studied in a variety of species in addition to more modern theories of learning. We will then explore how these principles influence diverse processes such as memory, attention, extinction, categorization, motivation, and in some cases, how they are implemented in the brain and disrupted in disease.

0101	Matthew Roesch TuTh 12:30pm - 1:45pm	Seats (Total: 36) BPS 1236

PSYC303 **Professional Development for Psychology Majors**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and must have completed 3 additional credits in PSYC courses. Or permission of BSOS-Psychology department. Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: PSYC309C or PSYC303. Formerly: PSYC309C.

An investigation of various career and graduate school opportunities available to psychology majors. Students will learn about a wide range of career fields, will learn how to utilize available resources to pursue career goals, and will take steps to advance their professional identity and development.

0101	Kevin McGann Class time/details on ELMs	Seats (Total: 20) ONLINE
0201	Kevin McGann Class time/details on ELMs	Seats (Total: 20) ONLINE
0301	Kevin McGann Class time/details on ELMs	Seats (Total: 20) ONLINE

PSYC318D **Community Interventions: Theory and Research; Community Interventions: Domestic Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Survey and critical examination of a problem in the community and related interventions. Analysis of theory and research relevant to the problem. Historical and current trends discussed. A student who has completed PSYC309 must have permission of the department in order to register for PSYC318.

Also offered as WMST498A. For PSYC majors only. Theories and research related to domestic violence and interventions with abused women will be studied, and students will think critically regarding ethical and multicultural issues related to domestic violence. Community resources and strategies for ending domestic violence in the United States will be discussed.

0101	Karen O'Brien	Seats (Total: 31)
	MW 8:00am - 9:15am	PLS 1111

PSYC330 **Child Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program. Credit only granted for: PSYC309B or PSYC330. Formerly: PSYC309B.

Etiology, diagnosis, prevention and treatment of emotional disorders of childhood and adolescence.

For PSYC majors only.

0101	Andrea Chronis-Tuscano	Seats (Total: 90)
	TuTh 11:00am - 12:15pm	BPS 1243

PSYC332 **Psychology of Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Contact department for information to register for this course.

PSYC334 **Psychology of Interpersonal Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Ryan Curtis TuTh 9:30am - 10:45am	Seats (Total: 135) BRB 1101

PSYC336 **Psychology of Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: WMST336. Credit only granted for: PSYC336 or WMST336.

A survey of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to undergraduate PSYC students only. Students will be expected to meet face-to-face during class time to comp lete small group work on 5-6 Fridays during the semester.

Click here for sample course syllabus.

0101	Nazish Salahuddin MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 99) SHM 2102 ONLINE

PSYC338D **Special Topics in Study Abroad III; Developmental Disorders**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338L **Special Topics in Study Abroad III; Dynamic Project Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338N **Special Topics in Study Abroad III; Neuroscience of Fear**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338P **Special Topics in Study Abroad III; Positive Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC341 **Introduction to Memory and Cognition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200 and PSYC300.

An introduction to the basic models, methods of research, and findings in memory, problem-solving, and language and their applications.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Michael Dougherty TuTh 12:30pm - 1:45pm	Seats (Total: 105) BPS 1243

PSYC353 **Adult Psychopathology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

The nature, diagnosis, etiology, and treatment of mental disorders.

Restricted to undergraduate PSYC students only.

Click here for sample course syllabus.

0101	Jack Blanchard TuTh 2:00pm - 3:15pm	Seats (Total: 105) BPS 1243

PSYC354 **Cross-Cultural Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D | General Education: DSHS

Prerequisite: PSYC100.

Cultural components in theory and research in personality, social, and community psychology. Interplay of individual, ethnic, and cultural factors in psychosocial growth and well-being, cross-cultural and cross-ethnic communication, and counseling and psychotherapeutic interactions.

Click here for sample course syllabus.

0101	Susan Lee MWF 12:00pm - 12:50pm	Seats (Total: 150) LEF 2205

PSYC355 Developmental Psychology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.

Restricted to undergraduate PSYC students only.

Click here for sample course syllabus.

0101	Bonnie Brett TuTh 11:00am - 12:15pm	Seats (Total: 135) JMZ 0220

PSYC356 Psychology of Adolescence

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A description of adolescent development based on research and theory interrelating psychological, intellectual, and social changes during the teen years and the systems dealing with those changes.

SG91	Rebecca Morse TuTh 12:30pm - 1:45pm *Restricted to CCJS students at shady Grove.*	Seats (Total: 40) BLD3 3206

PSYC361 **Survey of Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A general survey of the field of industrial organizational psychology including such topics as organizational entry (recruitment, selection, training, socialization); organizational psychology (motivation, leadership, job attitudes); and productivity in the work place (performance appraisal, absenteeism, turnover). The role that the larger environment plays in influencing work behaviors and work attitudes.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	James Grand	Seats (Total: 98)
	TuTh 9:30am - 10:45am	SQH 1120

PSYC389 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Internship in psychology-related fields.

For PSYC majors only. A course for undergraduate psychology majors to earn academic credit for an approved psychology-related internship experience. Information about the course may be obtained in BPS1107, or by contacting the instructor. Restricted to PSYC majors only.

0101	Steven Young	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC402 **Neural Systems and Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301. Additional information: Priority is given to PSYC majors.

Research on the physiological basis of behavior, including considerations of sensory phenomenon, motor coordination, emotion, drives, and the neurological basis of memory.

0101	Steven Brauth	Seats (Total: 31)
	TuTh 2:00pm - 3:15pm	BPS 1238

PSYC403 **Animal Behavior**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301.

Reviews the theoretical framework underlying the study of animal behavior. The genetic, hormonal and physiological basis of behavior, and the relation to ecological and evolutionary processes will be discussed using examples that range from invertebrate animals to humans.

For PSYC majors only.

Contact department for information to register for this course.

PSYC404 **Introduction to Behavioral Pharmacology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC301. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

Contact department for information to register for this course.

PSYC407 **Behavioral Neurobiology Laboratory**

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC301. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

Laboratory exercises introducing concepts and techniques of behavioral neurobiology. Activities emphasize design of neurobiology experiments, hands-on experience with behavioral and neurobiological techniques, data collection, and analysis of the results. Most exercises use living animals.

Permission required (contact professor, ddyager@umd.edu)

Click here for sample course syllabus.

0101	David Yager	Seats (Total: 7)	
	MW 9:00am - 9:50am	PLS 1117	
	M 2:00pm - 5:00pm	BPS 0263	Lab

0201	David Yager MW 9:00am - 9:50am W 2:00pm - 5:00pm	Seats (Total: 7) PLS 1117 BPS 0263	 Lab
0301	David Yager MW 9:00am - 9:50am Tu 2:00pm - 5:00pm	Seats (Total: 7) PLS 1117 BPS 0263	 Lab

PSYC409 **Topics in Neurosciences Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

Current research in neurosciences will be presented, read, and discussed. Emphasis will change each term.

For students in the neuroscience minor. Research presentations on selected topics in neuroscience. Review and discussion of background readings related to research presentations take place on alternate weeks. Restricted to students in the neuroscience minor.

0101	Robert Slevc, Catherine Carr Tu 4:00pm - 6:30pm	Seats (Total: 25) JMZ 3205

PSYC411 **Introduction to Functional Magnetic Resonance Imaging**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: PSYC200, PSYC301, and PSYC300. Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: PSYC309N or PSYC411. Formerly: PSYC309N.

An introduction to functional magnetic resonance imaging (fMRI). Students will be taught about formulating testable hypotheses with fMRI, utilizing basic methods in fMRI studies, and understanding existing limitations of fMRI studies in the literature.

0101	Luiz Pessoa TuTh 11:00am - 12:15pm	Seats (Total: 18) BPS 1232

PSYC416 **Development of Attachment in Infancy and Childhood: Theory, Research, Methods, and Clinical Implications**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC355; or permission of instructor. Restriction: Must be in a major within the BSOS-Psychology department. Credit only granted for: PSYC309J or PSYC416. Formerly: PSYC309J.

Overview of the development of attachment during infancy and childhood, examining theory, research methods, research findings, and clinical implications. Students will observe videos of attachment assessments, lead class discussion of readings, make class presentations, and complete writing assignments.

0101	Jude Cassidy TuTh 3:30pm - 4:45pm	Seats (Total: 22) BPS 1228	

PSYC420 **Experimental Psychology: Social Psychology Laboratory**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC221. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A laboratory course to provide a basic understanding of experimental method in social psychology and experience in conducting research on social processes.

Restricted to PSYC (major code 20010) students only.

Click here for sample course syllabus.

0101	Ryan Curtis MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 13) BPS 1236 EGR 0135	Lab
0102	Ryan Curtis MW 10:00am - 10:50am F 8:00am - 9:50am	Seats (Total: 13) BPS 1236 EGR 0135	Lab
0201	Dylan Selterman MW 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 13) BPS 1236 CHE 2136	Lab
0202	Dylan Selterman MW 11:00am - 11:50am F 2:00pm - 3:50pm	Seats (Total: 13) BPS 1236 BPS 1238	Lab

PSYC425 **Psychology and Law**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100, PSYC200, and PSYC300. Restriction: Must be in Psychology program. Credit only granted for: PSYC309K, PSYC325, or PSYC425. Formerly: PSYC309K.

An introduction to the intersection of psychology and the criminal justice sytem, known as the field of legal psychology. The material covered will span the course of the criminal justice process and examine each aspect from a psychological perspective beginning with profiling and moving on to eyewitness memory and judgements through perpetrator memories and interrogation techniques. These apsects will be evaluated with a research lens as well as an applied outlook.

0101	Tracy Tomlinson TuTh 12:30pm - 1:45pm	Seats (Total: 27) BPS 0283

PSYC432 **Counseling Psychology: Theories, Research, and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.

Restricted to undergraduate PSYC majors only. Students will be expected to meet face-to-face during class time to comp lete small group work on 5-6 Fridays during the semester.

Click here for sample course syllabus.

0101	Nazish Salahuddin MW 9:00am - 9:50am F 9:00am - 9:50am	Seats (Total: 36) BPS 1236 ONLINE
0301	Nazish Salahuddin MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 36) BPS 1238 ONLINE

PSYC433 **Basic Helping Skills: Research and Practice**

Credits: 4 Grading Method: Regular

Prerequisite: PSYC300; and (PSYC434, PSYC334, PSYC353, PSYC435, PSYC436, or PSYC432). Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

Theories and research regarding effective helping skills. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Because of the participatory nature of this class, attendance normally will be included in the computation of grades.

Restricted to undergraduate PSYC majors who have completed 85 credits.

Click here for sample course syllabus.

0101	Jonathan Mohr	Seats (Total: 22)	
	M 3:30pm - 4:45pm	BPS 1243	
	Tu 12:30pm - 1:45pm	BPS 1228	Lab
	Th 12:30pm - 1:45pm	BPS 1228	Lab
0102	Jonathan Mohr	Seats (Total: 22)	
	M 3:30pm - 4:45pm	BPS 1243	
	Tu 12:30pm - 1:45pm	BPS 1234	Lab
	Th 12:30pm - 1:45pm	BPS 1234	Lab
0103	Jonathan Mohr	Seats (Total: 22)	
	M 3:30pm - 4:45pm	BPS 1243	
	Tu 2:00pm - 3:15pm	BPS 0283	Lab
	Th 2:00pm - 3:15pm	BPS 0283	Lab
0104	Jonathan Mohr	Seats (Total: 22)	
	M 3:30pm - 4:45pm	BPS 1243	
	Tu 5:00pm - 6:15pm	BPS 1228	Lab
	Th 5:00pm - 6:15pm	BPS 1228	Lab

PSYC435 **Theories of Personality and Psychotherapy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Major theories of personality and research methods and findings relevant to those theories.

For PSYC majors only.

0101	Alexander Shackman	Seats (Total: 67)
	TuTh 9:30am - 10:45am	PLS 1140

PSYC436 **Introduction to Clinical Psychology: From Science to Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

Restricted to undergraduate PSYC majors only.

Click here for sample course syllabus.

0101	Andres De Los Reyes	Seats (Total: 67)
	MWF 11:00am - 11:50am	TYD 2109

PSYC440 **Experimental Psychology: Cognitive Processes**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC341 and PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A survey of the content, models, and methods in cognitive psychology with an emphasis on auditory and visual pattern recognition, information processing, attention, memory, learning, problem solving, and language.

0101	Tracy Tomlinson	Seats (Total: 18)	
	TuTh 2:00pm - 3:15pm	BPS 1232	
	W 1:00pm - 3:00pm	LEF 0231	Lab

PSYC442 **Psychology of Language**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC341. Restriction: Must be in Psychology program.

Introductory survey of the psychology of language, focusing on the cognitive processes that enable us to produce and understand language. Topics include speech perception, speech production, syntactic processing, language development, language disorders, and the brain bases of language.

Contact department for information to register for this course.

PSYC445 **The Psychology of Video Games and Entertainment**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200. Restriction: Must be in Psychology program; or permission of BSOS-Psychology department. Credit only granted for: PSYC309V or PSYC445. Formerly: PSYC309V.

An exploration of the diverse elements and theories in the psychology of video games and entertainment. The history and taxonomy of video games, cognitive and affective elements, virtual reality and social presence, video game violence, and educational and ethical issues will be covered.

0101	Kent Norman	Seats (Total: 32)
	MWF 2:00pm - 2:50pm	PLS 1129

PSYC460 **Psychological Foundations of Personnel Selection and Training**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC361 and PSYC200.

An examination of issues and processes involved in the design and evaluation of personnel selection and training programs in a variety of organizational settings: job, person and organizational analysis; organizational choice; development of predictors; evaluation of instructional and training systems; criteria for performance evaluation, promotion and training.

For PSYC majors only.

0101	Paul Hanges	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	BPS 0283

PSYC469H **Honors Thesis Proposal Preparation**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Development of honors thesis proposal by preliminary research and literature review. Presentation of formal proposal to the thesis committee.

Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC478 **Independent Study in Psychology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Information about independent study may be obtained in BPS 1107. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC479 **Special Research Problems in Psychology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Information about research credit may be obtained in BPS 1107. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC489C **Advanced Special Topics in Psychology; Early Social Cognition**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

An introduction to the origins of social cognition, from birth through infancy and toddlerhood. Examines the developing ability to represent and reason about social partners, and the motivations that guide early social behavior. Restricted to students in the PSYC Honors Program.

0101	Jonathan Beier	Seats (Total: 18)
	Tu 3:25pm - 5:55pm	KEY 0117

PSYC489O **Advanced Special Topics in Psychology; Historical Viewpoints and Current Theories in Psychology**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC300. For PSYC majors only. Origins of psychology in philosophy and the sciences; the development of psychology as a science in the nineteenth and twentieth centuries. A review of current theoretical perspectives and research in relation to the enduring issues in psychology. The role of culture, science, and technology in the development of psychological ideas. Restricted to students in the PSYC Honors Program.

0101	William Hodos	Seats (Total: 12)
	TuTh 2:00pm - 3:15pm	BPS 1234

PSYC499H **Honors Thesis Research**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

In addition to the department and instructor, the director of the honors program may be contacted to obtain a section number. Prerequisite: permission of the thesis advisor. Permission may be obtained in BPS 1147. Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC601 **Quantitative Methods I**

Credits: 4 Grading Method: Regular, Audit

Prerequisite: PSYC200; or students who have taken courses with comparable content may contact the department.

A basic course in quantitative/mathematical analysis and statistical methods in psychology with an emphasis on conceptual understanding. Topics include issues in measurement, probability theory, statistical inference and hypothesis testing, parameter estimation, bivariate regression, and correlation.

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

0101	Michael Dougherty	Seats (Total: 20)	
	TuTh 9:00am - 10:50am	BPS 0283	
	Th 5:00pm - 7:00pm	LEF 0225	Lab

PSYC603 **Introduction to Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PSYC603 or PSYC730. Formerly: PSYC730.

Advanced survey of industrial-organizational psychology, including selection, training, motivation, group processes, leadership, organizational psychology, and organizational theory. Readings stressed and seminar time will be used for lectures, discussion and integration of the reading materials.

0101	James Grand	Seats (Total: 15)
	Th 1:00pm - 3:30pm	BPS 1103

PSYC610 **Historical Viewpoints and Current Theories in Psychology**

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: PSYC610 or PSYC688. Formerly: PSYC688.

Origins of psychology in philosophy and the sciences; the development o psychology as a science in the nineteenth and twentieth centuries. A review of current theoretical perspectives and research in relation to the enduring issues in psychology. The role of culture, science, and technology in the development of psychological ideas.

0101	William Hodos	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	BPS 1234

PSYC612 **Theories of Personality**

Credits: 3 Grading Method: Regular, Audit

Scientific requirements for a personality theory. Postulates and relevant research literature for several current personality theories.

What makes each of us unique? How do these differences contribute to enduring differences in health & wealth? Review work in humans/non-humans aimed at understanding the psychobiological mechanisms underlying trait-like differences in personality (Negative/Positive Emotionality & Self-Control). Discuss phylogenetic/ontogenetic origins of temperment (e.g. Behavioral Inhibition), measurement issues, fundamental dimensions, mechanisms contributing to stability/change, heritability, implications for psychopathology & therapeutic intervention, & implications for public policy. Drill deeply into the neurobiology of fear/anxiety (systems- level & molecular/genetic/epigenetic evidence).

0101	Alexander Shackman	Seats (Total: 24)
	M 9:00am - 11:45am	BPS 1234

PSYC622 **Research Methods in Clinical Psychology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor. Credit only granted for: PSYC622 or PSYC718. Formerly: PSYC718.

Examines issues and strategies in conceptual systems, designs and methodologies of current research in clinical and community psychology. Readings include critical analyses of published research. Course requirements include preparation of a research proposal for a thesis level study.

PCC1	Julia Felton	Seats (Total: 45)
	Meets August 31, 2015 - November 20, 2015	
	Tu 6:00pm - 9:00pm	BPS 1140B
	Restricted to students in the Clinical Psychological Science Program.	

PSYC624 **Adult Psychopathology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC624 or PSYC719. Formerly: PSYC719.

Examines the scientific and clinical literature relevant to normal and pathological behavior in adults and associated nosological systems for categorizing psychopathology. Issues relevant to etiology, differential diagnosis, and treatment planning are also considered.

0101	Laura MacPherson Tu 1:00pm - 3:45pm	Seats (Total: 15) BPS 1103

PSYC629 **Clinical Laboratory**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Abigail Romirowsky Contact instructor or department for details.	Seats (Total: 10)
0201	Lea Dougherty Contact instructor or department for details. *Sections will meet in BPS2114.*	Seats (Total: 10)
0301	Mary Byrne Contact instructor or department for details.	Seats (Total: 10)

PSYC638 **Externship in Professional Psychology**

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

For PSYC majors only.

0101	Carl Lejuez Contact instructor or department for details.	Seats (Total: 20)
0201	Karen O'Brien Contact instructor or department for details.	Seats (Total: 20)

PSYC639 **Internship in Professional Psychology**

Credits: 1 Grading Method: Sat-Fail

This seminar combines involvement with a program approved appointment a an intern in a mental setting with a supervisory review of the training experience.

For PSYC majors only.

0101	Carl Lejuez	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC643 **Ethical and Professional Issues in Clinical Psychology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC643 or PSYC719. Formerly: PSYC719.

An overview of the ethical and professional issues involved in psychological research, instruction, and practice, with special attention to advocacy and ethical decision making regarding a variety of primary, secondary, and tertiary clinical/community interventions.

0101	Mary Byrne	Seats (Total: 20)
	W 1:00pm - 3:30pm	BPS 2114B
PCC1	Aditi Vijay	Seats (Total: 35)
	Meets August 31, 2015 - November 20, 2015	
	Tu 6:00pm - 9:00pm	BPS 0283
	Restricted to students in the Clinical Psychological Science Program.	

PSYC644 **Basic Foundation of Clinical Interventions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)).

General introduction to behavior theory and the basic behavioral principles that underlie behavior therapy. Provides an introduction to the philosophical, theoretical and empirical contributions of basic behavior analysis as they relate to behavior therapy, including examples of how behavior therapy is disconnected from its roots.

PCC1	Aditi Vijay	Seats (Total: 45)
	Meets August 31, 2015 - November 20, 2015	
	Th 6:00pm - 9:00pm	BPS 1140B
	Restricted to students in the Clinical Psychological Science Program.	

PSYC651 **Writing and Critical Thinking**

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in and have completed 4 terms of the Clinical Psychological Science MPS program.

A capstone experience to integrate knowledge learned throughout the program and improve critical thinking and research writing skills. This will be done through the production of a major research paper in an area relevant to the current or future career goals of the student and by emphasizing critical thinking skills.

PCC1	Jack Blanchard, Julia Felton	Seats (Total: 35)
	Meets August 31, 2015 - November 20, 2015	
	Th 6:00pm - 9:00pm	BPS 1236
	Restricted to students in the Clinical Psychological Science Program.	

PSYC662 **Understanding Trauma and Recovery I**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Graduate Certificate of Professional Studies in Treating Survivors of Violence, Torture, and Trauma: Theoretical Foundations and Mental Health; or permission of instructor.

This course is designed to provide students with an overview of psychological trauma and an introduction to treatment of trauma survivors. Current theoretical approaches to understanding trauma and treatment from psychological, developmental, neurobiological, cognitive, and ecological perspectives will be presented.

PLV1	Linda Tipton	Seats (Total: 30)
	Meets August 31, 2015 - November 20, 2015	
	Class time/details on ELMs	ONLINE
	Restricted to students in the VTT Program.	

PSYC695 **Ethical and Professional Issues in Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Counseling Psychology program. Also offered as: EDCP695. Credit only granted for: EDCP669, EDCP688, EDCP695, PSYC688, or PSYC695. Formerly: EDCP669 and EDCP688.

Exploration of ethical and professional issues in Counseling Psychology

0101	Derek Iwamoto	Seats (Total: 15)
	Tu 2:00pm - 4:50pm	JMZ 3118

PSYC698 **Advanced Didactic-Practicum in Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Sat-Fail

In depth examination of approaches to or theories about intervention, and supervised experience in the application of those approaches or theories. Each practicum focuses on a particular approach, e.g, psychodynamic, cognitive-behavioral, cross-cultural.

0101	Charles Gelso	Seats (Total: 15)
	W 1:00pm - 4:00pm	BPS 1238

PSYC700 **Theories and Strategies of Counseling Psychology**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Psychology department. Credit only granted for: PSYC700 or PSYC711. Formerly: PSYC711.

Introduction to the professional field, examination of pertinent scientific and philosophical backgrounds, and survey of the major theories, principles, and training models in counseling. Correlated laboratory analogue experiences in dyadic and group interrelationships.

0101	Clara Hill	Seats (Total: 8)
	M 2:00pm - 4:50pm	BPS 1103

PSYC764 **Comparative Neuroanatomy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of instructor.

Demonstrations and lectures on the gross, microscopic and ultrastructural morphology of the central nervous system of vertebrates.

0101	William Hodos	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	BPS 1103

PSYC779A **Seminar in Human Performance Theory; Seminar in Cyberpsychology**

Credits: 3 Grading Method: Regular

An examination of human-machine interactions with emphasis on theories and research which focus on human performance capabilities and skills. Topics selected from information processing, communications, human computer interaction, decision making, environmental constraints and automation.

A review of psychological issues relevant in the design and use of automated systems. Cognitive issues include perception, attention, motivation, memory, reasoning, judgment and decision making. Automated systems range from personal computers and mobile devices to global command and control systems.

0101	Kent Norman	Seats (Total: 20)
	Th 2:00pm - 4:30pm	BPS 1140A

PSYC789 **Special Research Problems**

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

PSYC789R **Special Research Problems; Early Social Cognition**

Credits: 3 Grading Method: Regular, Audit

Also offered as NACS728G. Credit granted for NACS728G or PSYC789R. This graduate seminar explores the foundations of social cognition and behavior, from birth through the first few years of life. Topics will include representations of intentional agents and their behavior, social evaluations of other people, early communication, prosocial motivations,and sensitivity to social norms. The emphasis will be on empirical studies with young children, but we will also draw from work with adults and other species. If you are interested in this course but are unable to participate at the listed time, please contact the instructor.

0101	Jonathan Beier	Seats (Total: 20)
	Th 12:20pm - 2:50pm	JMZ 1120

PSYC798A **Graduate Seminar; Multilevel Modeling**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PSYC601 and PSYC602; or permission of instructor. Students are provided with an introduction to multilevel modeling techniques (also termed "hierarchical linear models," "mixed effects models," and "random coefficient models"), with an emphasis on applications. Specific topics that are covered include conceptualization and specification of multilevel models, interpretation of parameter estimates, and application in computer programs using existing datasets. Applications will include a) individuals nested within groups; b) repeated measures/idiographic analysis; c) dyadic studies; d) daily-diary studies; and e) growth-curve modeling. Readings and examples will be drawn from clinical psychology, cognitive psychology, developmental psychology, educational psychology, and social psychology. Students are encouraged to use their own research data for course assignments

0101	Edward Lemay W 1:00pm - 3:30pm	Seats (Total: 20) LEF 0225

PSYC798B **Graduate Seminar; The Psychology of Teaching**

Credits: 1 Grading Method: Regular, Audit

0101	Ryan Curtis W 1:00pm - 1:50pm	Seats (Total: 20) BPS 1232

PSYC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

PSYC888A **Research Methods in Psychology; Developmental Seminar**

Credits: 1-3 Grading Method: Regular, Audit

0101	Tracy Riggins Contact instructor or department for details.	Seats (Total: 10)

PSYC889 **Research Methods in Psychology**

Credits: 1 Grading Method: Regular, Audit

0201	Michael Dougherty W 9:00am - 9:50am	Seats (Total: 10) BPS 0283

PSYC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

PUAF Public Policy Fall 2015

PUAF201 **Leadership for the Common Good**

Credits: 3 Grading Method: Regular CORE: IE General Education: DSHS, DSSP, SCIS

This course is designed to provide undergraduate students an introduction to leadership theory and a chance to practice a core set of practical skills relevant to transformational and collaborative leadership.

Restriction: Must be in the College Park Scholars Public Leadership program; and freshman standing.

0101	Jennifer Littlefield TuTh 2:00pm - 3:15pm	Seats (Total: 33) CCC 1205
0102	Jennifer Littlefield TuTh 2:00pm - 3:15pm	Seats (Total: 33) CCC 1205
0103	Jennifer Littlefield TuTh 2:00pm - 3:15pm	Seats (Total: 34) CCC 1205

PUAF214 **Leading and Investing in Social Change: Re-defining and Experimenting with Philanthropy**

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit only granted for: PUAF214 or PUAF359I. Formerly: PUAF359I.

Defines philanthropy as an exploration of how one develops a vision of the public good and then deploys resources (including donations, volunteers, and voluntary associations) to achieve an impact.

0101	Susannah Washburn	Seats (Total: 65)
	TuTh 2:00pm - 3:15pm	EAS 0102
	Restricted to students in the iGive Living Learning Program.	

PUAF301 **Sustainability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: AGNR301. Credit only granted for: AGNR301 or PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Robert Sprinkle	Seats (Total: 145)
	TuTh 12:30pm - 1:45pm	JMZ 0220

PUAF302 **Leadership: Philosophy, Policy and Praxis**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Leadership as a search for meaning, identity and purpose are explored. Also introduces major philosophical traditions, from the ancient world to the modern one, and encourages students to ground their leadership interests and aspirations in a disciplined process of self-reflection, critical thinking and inquiry.

Restriction: Must be in the Rawlings Undergraduate Leadership Fellows Program.

0101	Eric Luedtke, Nina Harris	Seats (Total: 27)
	W 4:15pm - 6:45pm	TLF 1126
	Contact instructor or department for details.	

PUAF311 **Women in Leadership**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PUAF311 or PUAF359W. Formerly: PUAF359W.

Examines the role of women in the leadership process including the participation of women as activists, voters, advocates, public leaders and as agents of change through various avenues including, among others, public service (elected and appointed), the media, community service, political organizations, and the nonprofit sector.

0101	Anne Kaiser	Seats (Total: 25)
	Tu 4:15pm - 6:45pm	TLF 1126

PUAF313 **Advocacy in the American Political System**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: PUAF313 or PUAF359C. Formerly: PUAF359C.

Introduces students to the creation of law through the legislative process with a special focus on the Maryland General Assembly.

0101	Gerard Evans	Seats (Total: 120)
	M 2:00pm - 4:35pm	CSS 2324

PUAF349 **Internship in Political Institutions: State and Local**

(Perm req)

Credits: 3-6 Grading Method: Regular

Offers students supervised internship placements in state and local political or public policy organizations.

Also offered as BSOS349.

0101	Eric Luedtke	Seats (Total: 5)
	Contact instructor or department for details.	

PUAF386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: Permission of PUAF-School of Public Policy. Repeatable to 12 credits if content differs.

0101	Nina Harris	Seats (Total: 10)
	Contact instructor or department for details.	

PUAF388 **Special Topics in Public Policy**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris Contact instructor or department for details.	Seats (Total: 10)	

PUAF388T **Special Topics in Public Policy; Undergraduate Teaching Assistant Directed Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris Contact instructor or department for details.	Seats (Total: 10)	

PUAF610 **Quantitative Aspects of Public Policy**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Introduces statistical methods needed for evaluating and choosing among policy options. Topics include probability; decision-making under uncertainty; the organization, interpretation, and visual display of complex data; prediction and inferences about causality; hypothesis testing; and linear and multiple regression. Develops analytical skills and the ability to apply theory to complex, real-world problems.

0201	Seth Weissman Tu 7:00pm - 9:30pm F 1:30pm - 4:00pm	Seats (Total: 30) PKT 1224 TYD 1108		Discussion
0301	Madiha Afzal W 4:15pm - 6:45pm F 1:30pm - 4:00pm	Seats (Total: 30) VMH 1207 Location: TBA		Discussion
0401	Madiha Afzal W 9:15am - 11:45am F 1:30pm - 4:00pm	Seats (Total: 30) VMH 1207 Location: TBA		Discussion

PUAF611 **Quantitative Analysis of Policy Issues**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Study of a series of problems and the development of quantitative techniques to describe or evaluate the problem. The organization and interpretation of complex data and its use for prediction and inference about casual effects. The definition of objectives, trade-offs among objectives, and allocation of resources to meet objectives. Sensitivity of outcomes to changing conditions.

0101	Seth Weissman M 4:15pm - 6:45pm F 9:15am - 11:45am	Seats (Total: 20) VMH 1107 VMH 1203	
0201	Seth Weissman M 7:00pm - 9:30pm W 7:00pm - 9:30pm	Seats (Total: 20) VMH 1207 VMH 1207	 Discussion

PUAF620 Political Analysis

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Examination of politics as a process for allocating scarce resources among claimants for public benefits. Comparision of the allocative model of politics with other distributive processes, such as markets. Comparison of the model with behavior of different political institutions, such as Congress and the presidency. Study of politics as a process with distinctive concepts of rationality. The translation of voter and interest group preferences into public choices. The impact of political decisions on competing constituencies.

0101	Donald Kettl Tu 9:15am - 11:45am	Seats (Total: 20) Location: TBA	
0201	Donald Kettl Tu 4:15pm - 6:45pm	Seats (Total: 20) VMH 1107	
0301	Christopher Foreman Th 9:15am - 11:45am	Seats (Total: 20) VMH 1203	
0401	Allen Schick Th 7:00pm - 9:30pm	Seats (Total: 20) Location: TBA	

PUAF640 **Microeconomic and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).

0201	Michael Busse Tu 1:30pm - 4:00pm W 1:30pm - 4:00pm	Seats (Total: 40) VMH 1203 ASY 3211	Discussion
0301	Michael Busse W 1:30pm - 4:00pm F 9:15am - 11:45am	Seats (Total: 40) VMH 1207 EGR 0110	Discussion
0401	Michael Busse Tu 4:15pm - 6:45pm W 1:30pm - 4:00pm	Seats (Total: 40) VMH 1203 SQH 1105	Discussion

PUAF641 **Macroeconomics and Policy Analysis**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Studies the behavior of the economy as a whole: the level of national income, unemployment, and inflation; the vulnerability of the U.S. economy to external influences; possible federal influence over the level of economic activity; and the consequences for prices, employment and the U.S. trade deficit. Also examines possible U.S. policy responses to widespread debt crises in developing countries.

0101	William Helkie Tu 7:00pm - 9:30pm M 7:00pm - 9:30pm	Seats (Total: 20) VMH 1207 KEY 0120	Discussion

PUAF650 **Moral Dimensions of Public Policy**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Explores the moral issues involved in public policy questions; the limits and usefulness of decision-making tools; problems of choosing, justifying and using criteria to judge a program's success and suitability; ethichal issues involving the welfare state and income distribution; and possible obligations beyond one's political community and generation.

0101	Miguel Gonzalez-Marcos Th 7:00pm - 9:30pm	Seats (Total: 20) VMH 1203	
0301	Miguel Gonzalez-Marcos Th 1:30pm - 4:00pm	Seats (Total: 20) VMH 1207	
0601	Miguel Gonzalez-Marcos Th 9:15am - 11:45am	Seats (Total: 20) VMH 1207	

PUAF670 **Public Budgeting & Financial Management**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Covers how governments raise, spend, borrow, and manage public funds. Reviews federal,state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.

Prerequisites PUAF 610 and 640.

0201	Travis St Clair W 4:15pm - 6:45pm Th 4:15pm - 6:45pm	Seats (Total: 20) VMH 1203 TLF 1101	 Discussion

PUAF671 **Public Sector Finance**

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

The goal of this course is to provide a useful overview of basic public sector financial management principles in a simulated managerial situation to midcareer students currently working in government and nonprofit organizations.

Contact department for information to register for this course.

PUAF688A **Topics in Public Policy; Comparative Political Institutions**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Miguel Gonzalez-Marcos M 1:30pm - 4:00pm	Seats (Total: 20) VMH 1207

PUAF688M **Topics in Public Policy**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Contact department for information to register for this course.

PUAF688Q **Topics in Public Policy; Climate Negotiations Politics and Practice**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

0101	Anand Patwardhan, Elisabeth Gilmore W 4:15pm - 6:45pm	Seats (Total: 40) Location: TBA

PUAF689A **Public Policy Topics; Federal Acquisition: Concept and Management**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy. Also offered as BUSI758A and ENSE698J.

0101	William Lucyshyn W 4:15pm - 6:45pm	Seats (Total: 22) Location: TBA

PUAF689J **Public Policy Topics; Food Economics and Health**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction:: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of PUblic Policy.

0101	Alok Bhargava W 1:30pm - 4:00pm	Seats (Total: 20) VMH 1101

PUAF689K **Public Policy Topics; Decision Analysis**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

0101	Elisabeth Gilmore W 9:15am - 11:45am	Seats (Total: 20) Location: TBA

PUAF689Q **Public Policy Topics; Quantitative Methods for Evidence-based Policies**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

0101	Alok Bhargava W 9:15am - 11:45am	Seats (Total: 20) VMH 1101

PUAF689Z **Public Policy Topics; Strategic Management for NonProfit and Public Organizations**

Credits: 3 Grading Method: Regular, Audit

Special Topics in Public Policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Robert Sheehan	Seats (Total: 30)
	W 7:00pm - 9:30pm	VMH 2505

PUAF692 **Leadership Principles and Practices**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

This course will introduce leadership principles and practices to students by focussing on the theory of leadership, different leadership themes and skills, and discussions with practitioners.

Contact department for information to register for this course.

PUAF698A **Selected Topics in Public Affairs; Poverty Measurement and Alleviation**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAF majors only or permission of department

0101	Douglas Call, Douglas Besharov	Seats (Total: 20)
	Tu 7:00pm - 9:30pm	VMH 1203

PUAF698C **Selected Topics in Public Affairs; Intelligence and Policy: Executive, Congressional and Public Dimensions**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy.

0101	William Nolte	Seats (Total: 20)
	W 4:15pm - 6:45pm	Location: TBA

PUAF698G **Selected Topics in Public Affairs; Government Contracting and Pricing**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Arthur Garcia	Seats (Total: 17)
	Th 7:00pm - 9:30pm	JMP 2120

PUAF698L **Selected Topics in Public Affairs**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF698N **Selected Topics in Public Affairs; Intelligence and National Security**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PUAF698P **Selected Topics in Public Affairs; Information Policy and Technology**

Credits: 1-3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF698T **Selected Topics in Public Affairs; Managing Across Sectors**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Elizabeth Duke	Seats (Total: 20)
	M 9:15am - 11:45am	VMH 1203

PUAF698V **Selected Topics in Public Affairs; Managing Social Services**

Credits: 3 Grading Method: Regular

Special topics that arise in public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PUAF698X **Selected Topics in Public Affairs**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF698Z **Selected Topics in Public Affairs; Trends in Counter Terrorism**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699 **Selected Topics Public Policy; Motivation and Intents of Terrorism**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699A **Selected Topics Public Policy; Asset Management II**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699B **Selected Topics Public Policy; Local Governance and Land Use Planning**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699G **Selected Topics Public Policy; Leadership in Groups and Organizations**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699J **Selected Topics Public Policy; Pathways to Development**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Allen Schick	Seats (Total: 28)
	Th 1:30pm - 4:00pm	VMH 1203

PUAF699M **Selected Topics Public Policy; Acquisitions In National Security**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699O **Selected Topics Public Policy; 21st Century Policy Challenges**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699R **Selected Topics Public Policy; Critical Thinking and Analytic Methodology**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699T **Selected Topics Public Policy; Terrorism Analysis: Tools and Practices**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699W **Selected Topics Public Policy; Motivations and Intents of Terrorism**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699X **Selected Topics Public Policy; Organizational Behavior**

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF700 **U.S. Trade: Policy and Politics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PUAF641, PUAF620, and PUAF640. Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Interplay between government and private interests in shaping official actions that affect international trade. Policy tools available to influence balance, magnitude, and composition of imports and exports. Evolution of executive, congressional and quasi-judicial government institutions under increased U.S. international trade exposure and trade deficit.

0101	I M Mac Destler	Seats (Total: 22)
	Tu 1:30pm - 4:00pm	VMH 1101

PUAF711 **Public Management and Leadership**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.

0301	Elizabeth Duke Tu 9:15am - 11:45am	Seats (Total: 22) VMH 1203
0401	Samuel McCann M 4:00pm - 6:40pm	Seats (Total: 15) JMP 2222

PUAF712 **Analysis of Fiscal Conditions**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

The financial operations of U.S. government at various levels, with emphasis on local governments. Practical problems in revenue management, including revenue forecasting and cash flow analysis; debt management operations, such as borrowing; intergovernmental financial operations, such as grants management and reporting requirements, and personnel management issues that have a direct bearing on governmental finances.

0101	Marita Brown Tu 4:15pm - 6:45pm	Seats (Total: 20) VMH 1101

PUAF715 **Government and Non-Profit Accounting**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Basic accounting practices of governmental and non-profit organizations. Emphasis on presentation of data in assessing an organization's financial health, financial data by organizations, structuring of accounting information to achieve management control, way in which evolving national standards influence kinds of information organizations have to apply in the future.

Contact department for information to register for this course.

PUAF716 **State and Local Government Budgeting**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

State and local government practices as a laboratory for studying public sector financial management.

Contact department for information to register for this course.

PUAF717 **Federal Budgeting: Policy and Process**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Budgeting as a political and administrative instrument of government. Development of budgeting, the multiple uses of the budget, including role in fiscal policy and resource allocation, the roles and relationships of major participants, and effects of resource scarcity on budgeting behavior. Emphasis on the federal level.

Contact department for information to register for this course.

PUAF720 **International Security Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Reviews the principal features of international security as currently practiced. Traces the evolution of contemporary policy beginning with the initiation of nuclear weapons programs during World War II. Particular emphasis is given to experience of the United States and Russia, since the historical interaction between these two countries has disproportionately affected the international security conditions that all other countries now experience.

0101	Charles Harry	Seats (Total: 25)
	Tu 4:15pm - 6:45pm	VMH 1207

PUAF722 **Terrorism and Democracy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

United States government's decision process for dealing with crises; the options available to a president for deterring and handling incidents of terrorism, and how a president can and should select between the options.

Contact department for information to register for this course.

PUAF724 **Problems of Global Security**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy. Formerly: PUAF698W.

Explores the international security implications of globalization, presenting evidence indicating that altered circumstances will eventually induce a major redesign of prevailing security arrangements. Includes three segments: 1) a review of the principal problems that have been the focus of established security policy and would be the context for any major adjustment of policy; 2) an assessment of relationships with the major countries where traditional problems are most acutely present; and 3) a review of the organizing principles that can be expected to emerge in the new situation.

Contact department for information to register for this course.

PUAF734 **Foundations of Social Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy.

Provides an overview of government's role in social policy and the history of the development of federal and state policies with respect to welfare, aging, education, and housing. Analyzes current federal institutions and legislation in the same policy areas and the demographic history of the United States. Develops skills in analytic writing and presentation of descriptive data.

Contact department for information to register for this course.

PUAF735 **Health Policy**

Credits: 3 Grading Method: Regular, Audit

Analyzes the origins, history, status, and future of health care as problems in political and economic theory and as puzzles in policy formation. Considers current American reform controversies in the light of several disciplines and in comparison to foreign experiences and structures.

0101	Robert Sprinkle	Seats (Total: 20)
	Tu 9:15am - 11:45am	Location: TBA

PUAF737 **Strategies of Equality**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy. Formerly: PUAF698Y.

Concentrates on the institutional and political means by which disadvantaged segments of the United States population have sought to enhance their social, economic and political prospects. Race, gender and disability are the substantive focal points, with considerable attention given to the challanges of African American socio-political uplift. Also explores legislation, litigation, administration, agitation (i.e. protest), and constitutional reform. Students become familiar with alternative conceptions of equality and the modes of argument employed in different institutional and political contexts.

0101	Christopher Foreman Th 4:15pm - 6:45pm	Seats (Total: 20) Location: TBA

PUAF741 **Global Environmental Problems**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Suitability of analytic tools for examining global environmental problems, human overpopulation, land abuse, ozone depletion, climate change, acid rain, loss of biological diversity, the scarcity of food, fresh water, energy and nonfuel mineral resources, and health hazards of pollutants toxic metals and radiation.

0101	Anand Patwardhan Th 4:15pm - 6:45pm	Seats (Total: 40) VMH 1207

PUAF742 **Environmental Ethics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Analyzes issues such as the relation between human beings and nature from the perspectives of the science, history, philosophy, and religion. Considers the bases for policies such as environmental regulation, public lands, and international conventions with respect to the environment.

0101	Thomas Hilde M 7:00pm - 9:30pm	Seats (Total: 20) VMH 2101F

PUAF744 **Environment and Development**

Credits: 3 Grading Method: Regular, Audit

Analyzes sustainable development and its conflicting interpretations. The dominant view, as expressed in the World Bank's 1992 World Development Report, is studied, along with some critical responses. Further readings on issues of population, consumption and development indicators.

0101	Thomas Hilde	Seats (Total: 20)
	Tu 7:00pm - 9:30pm	VMH 1107

PUAF752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

0101	Charles Field	Seats (Total: 20)
	M 4:15pm - 6:50pm	VMH 1101

PUAF753 **Advanced Negotiations**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PUAF752. Credit only granted for: PUAF698C or PUAF753. Formerly: PUAF698C.

Deepens the student's negotiation and leadership skills for managing differences between individuals and groups. Cover conflict, escalation, dealing with intractable conflicts, sustaining agreements in inter-group conflicts, and the effects of trauma on negotiations.

Contact department for information to register for this course.

PUAF770 **Seminar in Housing and Community Development Strategies**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy.

Detailed examination of community and social policy issues relating to the construction and management of affordable housing.

Contact department for information to register for this course.

PUAF771 **Housing and Community Development Overview**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development.

An overview of the housing development process. Community development context, financial analysis, analytical tools including microcomputer applications, architectural and design issues, engineering constraints.

Contact department for information to register for this course.

PUAF772 **Housing Finance**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development.

Fundamentals of housing investment analysis. Structuring feasibility analyses, appraisals, pro forma statements, return on investment, leverage analysis, underwriting ratios, taxation and syndication.

Contact department for information to register for this course.

PUAF773 **Housing Clinic**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development.

Issues and strategies applicable to urban, suburban, and rural areas. Field experience and a team exercise, using the case study method, will give an opportunity for concrete application of the concepts to a specific set of community problems.

Contact department for information to register for this course.

PUAF774 **Asset Management**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be enrolled in the executive training program sponsored by the Department of Housing and Urban Development.

Asset manager's role at each stage of the property's life cycle and property analysis, including cash flow debt and staffing. Topics include capital needs; major building systems, costs and useful lives; marketing and outreach; and anti-crime strategies. Field trips to problem properties to perform cost/benefit analysis, diagnose potential cures, and prepare action plans.

Contact department for information to register for this course.

PUAF780 **The American Foreign Policy-Making Process**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Survey and analysis of the governmental institutions and processes which shape U.S. global engagement on national security and international economic issues. Particular emphasis is given to executive-congressional relations and the broader domestic roots of foreign policy.

0101	I M Mac Destler	Seats (Total: 20)	
	M 1:30pm - 4:00pm	VMH 1203	

PUAF781 **International Economic Policy**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Issues and choices facing the United States in today's global economy. Primary, but not exclusive, emphasis is given to "competitive interdependence" among advanced industrial societies.

0101	Phillip Swagel	Seats (Total: 25)	
	M 4:15pm - 6:45pm	VMH 1207	
	Th 7:00pm - 9:30pm	PKT 1224	Discussion

PUAF790 **Project Course**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

Contact department for information to register for this course.

PUAF798A **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798B **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798F **Readings in Public Policy; Environmental Finance Strategies and Solutions**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

For PUAF majors only or permission of department.

Contact department for information to register for this course.

PUAF798J **Readings in Public Policy; Contemporary Water Resources Management**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

For PUAF majors only or permission of department. Also offered as ENCE688J. Credit will granted for one of the following: ENCE688J, ENPP620, or PUAF798J.

0101	Gerald Galloway	Seats (Total: 24)
	Tu 5:00pm - 7:30pm	EGR 3102

PUAF798M **Readings in Public Policy; Arms Control and Non-Proliferation Policy**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Nancy Gallagher Tu 9:15am - 11:45am	Seats (Total: 20) Location: TBA

PUAF798N **Readings in Public Policy; Energy Economics**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Benjamin Schlesinger M 9:15am - 11:45am	Seats (Total: 20) VMH 1107

PUAF798Z **Readings in Public Policy; Qualitative Research Methods and Public Policy**

Credits: 3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Restriction: Must be a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

0101	Peter Reuter F 3:00pm - 5:30pm	Seats (Total: 20) VMH 1101

PUAF898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PUAF899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

RDEV Real Estate Development Fall 2015

RDEV350 **Sustainable Real Estate Development: Introduction to Principles, Process, and Practice**

Credits: 3 Grading Method: Regular

Credit only granted for: RDEV150 or RDEV350. Formerly: RDEV150.

An introduction to the basic principles of sustainable real estate development: How communities get built and how value is created. The emphasis is on entrepreneurship, innovation, and experiential learning with an experiential learning approach to the entrepreneurial real estate development process, principles, and practice.

0101	Kaufman Robert Th 6:50pm - 9:30pm	Seats (Total: 30) ARC 1101

RDEV630 **Fundamentals of Real Estate Development and Finance**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Real Estate Development (Master's) program; or permission of ARCH-Real Estate Development. Credit only granted for: RDEV630, RDEV688B, or URSP664. Formerly: RDEV688B.

An introduction to real estate development and the foundational concepts of finance and particular financial measures in underwriting real estate projects. Quantitative analyses and financial modeling comprise the main focus.

0101	Thomas Dwyer W 7:00pm - 9:40pm	Seats (Total: 30) ARC 0111

RDEV635 **Capital Markets and Real Estate Investments for Developers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: RDEV630, URSP664, or RDEV688. Restriction: Must be in Real Estate Development (Master's) program; or permission of ARCH-Real Estate Development. Credit only granted for: RDEV635 or RDEV688F. Formerly: RDEV688F.

An advanced course in real estate finance focusing on capital markets and complex financing mechanism in the public and private markets for raising capital for development of public, private and public/private projects.

0101	Maria Day-Marshall M 7:00pm - 9:40pm	Seats (Total: 15) ARC 1115

RDEV688A **Selected Topics in Real Estate Development; Law, Process and Ethics**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: Permission of the department.

0101	Delna White-Gray M 7:00pm - 9:40pm	Seats (Total: 30) ARC 1103

RDEV688F **Selected Topics in Real Estate Development; Practical Issues in Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Margaret McFarland, Dan Winters Th 6:30pm - 9:10pm	Seats (Total: 15) ARC 1121

RDEV688I **Selected Topics in Real Estate Development; Capstone Seminar in Real Estate Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: permission of department and completion of 21 RDEV credits.

0101	Margaret McFarland, Kristi Adams Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1127
0102	Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) Location: TBA
0103	Kaufman Robert , Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1125
0104	Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1121
0105	Margaret McFarland, John Pitchford Tu 7:00pm - 9:40pm	Seats (Total: 25) ARC 1123

RDEV688J **Selected Topics in Real Estate Development; Principles of Urban Design**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: Permission of the department.

0101	Robert McClennan Tu 7:00pm - 9:40pm	Seats (Total: 25) ARC 1103

RDEV688K **Selected Topics in Real Estate Development; Tax and Accounting for Real Estate Developers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: permission of department.

0101	Leslie Mostow Tu 7:00pm - 9:40pm	Seats (Total: 28) ARC 1101

RDEV688L **Selected Topics in Real Estate Development; Commercial Leasing**

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics in real estate development.

Prerequisite: RDEV688A, RDEV630, and permission of department.

0101	Christopher Camarra, Emily Smith W 7:00pm - 9:40pm	Seats (Total: 25) ARC 1103

RDEV688X **Selected Topics in Real Estate Development; Leadership & Organizational Management for Real Estate Development**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Peter Shapiro Sa 9:30am - 1:00pm	Seats (Total: 15) ARC 1101

RDEV689C **Current Topics in Real Estate Development; Introduction to Practice and Process**

(Perm req)

Credits: 2

Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	Lisa Wiersma, Margaret McFarland	Seats (Total: 30)
	W 7:00pm - 8:40pm	ARC 1105

RDEV689F **Current Topics in Real Estate Development; Advanced Real Estate Finance**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

0101	Lois Fried	Seats (Total: 15)
	F 6:30pm - 9:10pm	ARC 1125

RDEV689M **Current Topics in Real Estate Development; Market Analysis and Valuation**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	Robert Lefenfeld, Stephen Rudow	Seats (Total: 28)
	M 7:00pm - 9:40pm	ARC 1101

RDEV689T **Current Topics in Real Estate Development; Asset Management for Hospitality Properties**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	JEFFREY BOND	Seats (Total: 15)
	Th 7:00pm - 9:40pm	ARC 1125

RDEV689V **Current Topics in Real Estate Development; Introduction to Real Estate Finance Basics**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

0101	Lisa Wiersma	Seats (Total: 30)
	W 8:50pm - 9:40pm	ARC 1105

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.

Prerequisite: Permission of the department.

0101	Margaret McFarland	Seats (Total: 10)
	Contact instructor or department for details.	

RELS Religious Studies Fall 2015

RELS120 **Islamic Civilization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHU

Also offered as: HIST120. Credit only granted for: HIST120 or RELS120.

Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.

0101	Antoine Borrut	Seats (Total: 20)	
	MW 9:00am - 9:50am	KEY 0102	
	W 10:00am - 10:50am	KEY 0124	Discussion

0102	Antoine Borrut MW 9:00am - 9:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 SQH 1111	Discussion
0103	Antoine Borrut MW 9:00am - 9:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0102 TWS 1106	Discussion
0104	Antoine Borrut MW 9:00am - 9:50am F 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 WDS 1131	Discussion
SA13	Instructor: TBA	Seats (Total: 0)	

RELS170 **Greek and Roman Mythology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU

Also offered as: CLAS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This cours is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 KEY 0126	Discussion
0102	Lillian Doherty MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 26) MMH 1400 KEY 0123	Discussion
0103	Lillian Doherty MW 10:00am - 10:50am Th 8:00am - 8:50am	Seats (Total: 26) MMH 1400 JMZ 0118	Discussion
0104	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 TYD 2106	Discussion

0105	Lillian Doherty MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 26) MMH 1400 PLS 1119	Discussion
0107	Lillian Doherty MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 26) MMH 1400 KEY 0103	Discussion
0108	Lillian Doherty MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 26) MMH 1400 TYD 1118	Discussion
0201	Lillian Doherty MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 26) MMH 1400 TYD 2108	Discussion
0203	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 SQH 1119	Discussion
0204	Lillian Doherty MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 26) MMH 1400 JMZ 0125	Discussion

RELS236 **Philosophy of Religion**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Also offered as: PHIL236. Credit only granted for: PHIL236 or RELS236.

A philosophical study of some of the main problems of religious thought the nature of religious experience, the justification of religious belief, the conflicting claims of religion and science, and the relation between religion and morality.

0101	Sungwon Woo MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 26) PLS 1140 EDU 2101	Discussion
0102	Sungwon Woo MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 26) PLS 1140 ASY 3211	Discussion

0103	Sungwon Woo MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) PLS 1140 ASY 2309	Discussion

RELS269G **Special Topics in Study Abroad II; From Asoka to Gandhi: Buddhism and Hinduism in Contemporary Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS289D **God Wills It! The Crusades in Medieval and Modern Perspective**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Also offered as: HIST133. Credit only granted for: HIST133, HIST289D, or RELS289D.

0101	Colleen Ho MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0124	Discussion
0102	Colleen Ho MW 10:00am - 10:50am M 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 ASY 3221	Discussion
0103	Colleen Ho MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 JMZ 0118	Discussion
0104	Colleen Ho MW 10:00am - 10:50am M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0123	Discussion
0105	Colleen Ho MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0106	Colleen Ho MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0120	Discussion

RELS289J **New Explorations in Religious Studies; Jerusalem in Antiquity: The Hitory of Scred Space in a Holy City**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Investigation of critical and innovative responses in Religious Studies Although the topic will vary, the course will encourage intellectual exploration by students of fundamental problems and critical methods.

Also offered as JWST289J. Credit will be granted for RELS289J or JWST289J. The questions of sacred space through the topic of Jerusalem are explored. The study of Jerusalem's history as a holy city reveals the many ways by which sacred space is constructed. It will also examine thedevelopment of places that continue to hold great sanctity in Judaism (the Western Wall), Christianity (the church of the Holy Sepulchre and teh Mount of Olives), and Islam (the Dome of the Rock and teh Al-Aqsa Mosque on the Haram ash-Sharif).

0101	Matthew Suriano MW 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) ASY 2309 LEF 1222	Discussion
0102	Matthew Suriano MW 12:00pm - 12:50pm Th 3:00pm - 3:50pm	Seats (Total: 20) ASY 2309 LEF 1222	Discussion
0103	Matthew Suriano MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2309 WDS 1127	Discussion
0104	Matthew Suriano MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 20) ASY 2309 WDS 1127	Discussion

RELS319C **Special Topics in Religious Studies; Early Christianity: Jesus to Constantine**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics in the study of religious history, literature, culture, and thought.

Prerequisite: Must have completed one course in ancient history at the 200 level. Also offered as: HIST320 and JWST331. Credit only granted for: HIST320, JWST331, or RELS319C. Social and religious history of early Christianity from its origins in the first century to the reign of Constantine.

0101	Hayim Lapin TuTh 2:00pm - 3:15pm	Seats (Total: 36) KEY 0103

RELS319L **Special Topics in Religious Studies; Islam: Learning, Piety, and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in the study of religious history, literature, culture, and thought.

Also offered as HIST319L and PERS398C. Credit granted for HIST319L, PERS398C or RELS319L. An examination of the formation and development of major religious and intellectual currents of Islam in historical perspective. We will cover essential sources and practices (the Qur'an and the example of Muhammad), the development of religious disciplines of learning (Qur'an and hadith studies, law and ethics, philosophical and mystical theology), everyday popular ritual and piety (popular preaching, celebration of Muhammad's birth, saint cults), sectarian/charismatic movements (Shi'is and Kharijis), as well as the social and intellectual bases of reformist thought of both liberal and conservative character in the early modern and modern eras.

0101	Ahmet Karamustafa TuTh 9:30am - 10:45am	Seats (Total: 29) TLF 2103

RELS341 **Europe in the High Middle Ages: 1000-1500**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: HIST331. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance. Also offered as HIST331. Credit only granted for: RELS341 or HIST331.

0101	Janna Bianchini MW 9:00am - 10:15am	Seats (Total: 36) KEY 0126

RELS342 **Renaissance Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST112 or HIST111; or permission of instructor required. Also offered as: HIST332. Credit only granted for: HIST332 or RELS342.

Intellectual developments in Italy and Northern Europe from 1300 to 1550 and their influence on the arts and religion; social and economics trends, including the rise of the commercial economy in cities; the family and the role of women in society; expansion of Europe overseas and the beginnings of colonization; emergence of the state and consequent changes in political theory.

0101	Stefano Villani	Seats (Total: 36)
	TuTh 11:00am - 12:15pm	KEY 1117

RELS346 **History of Religion in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST255, HIST211, HIST156, HIST254, HIST213, HIST157, or HIST210; or permission of instructor. Also offered as: HIST306. Credit only granted for: HIST306 or RELS346.

A history of religion, religious movements, and churches in America from the early Colonial period to the present, with special attention to the relation between church and society.

0101	Miles Bradbury	Seats (Total: 27)
	TuTh 2:00pm - 3:15pm	TLF 1103

RELS369C **Special Topics in Study Abroad III; Between Tolerance and Conflict: Jewish, Christians and Muslims in the Iberian Peninsula**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS369R **Special Topics in Study Abroad III; Christianity and the Roman Empire (100-425CE)**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS419F **Advanced Topics in Religious Studies; Critical Issues in Israeli Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as JWST429J, ISRL449K, HEBR430 and FILM430. Credit granted for RELS419F, JWST429J, ISRL449K, HEBR430 or FILM430.

0101	Eric Zakim	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1103

RELS419J **Advanced Topics in Religious Studies; Aztec Culture: Human Sacrifice and Conquest**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as LASC448J. Credit will be granted for LASC448J or RELS 419J.

0101	James Maffie	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	EGR 2154

RELS419R **Advanced Topics in Religious Studies; Religious Movements in European Jewish History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as HIST429X and JWST347. Credit will be granted for only one of the following: HIST429X, JWST347, or RELS419R. An exploration of the history of the different modern Jewish religious movements that developed in Europe, starting with messianic movements and ending with Reform and Orthodoxy. Emphasis will be placed on the influence of the academic study of Judaism on the development of modern Jewish religious ideologies and practices.

0101	Rachel Manekin	Seats (Total: 40)
	MW 2:00pm - 3:15pm	SQH 1101

RELS499 **Independent Study in Religious Studies**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An advanced independent research project for qualified students, supervised by a faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

RUSS Russian Fall 2015

RUSS101 **Intensive Elementary Russian I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian. Credit only granted for: RUSS101 or (RUSS111 and RUSS112).

This intensive first-year course is intended to develop the four skills: reading, writing, listening and speaking with an emphasis on communicative competence.

This course has been put on a timed release system. Seats will be opended gradually by the registrar's office, to a total of 15 seats per section.

0101	Cynthia Martin, Robert Fradkin MWF 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 15) JMZ 1103 JMZ 3203
0201	Cynthia Martin, Robert Fradkin MWF 11:00am - 11:50am TuTh 11:00am - 12:15pm	Seats (Total: 15) JMZ 1103 JMZ 3203

RUSS201 **Intermediate Russian I**

Credits: 5 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: RUSS102 or RUSS114; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian.

Continued activation and expansion of skills and knowledge acquired in an elementary Russian course with the goal of communicative competence.

0101	Zhanna Gerus-Vernola MWF 10:00am - 10:50am TuTh 10:00am - 10:50am	Seats (Total: 15) JMZ 2123 JMZ 3205

RUSS203 **Intermediate Russian for Heritage Speakers I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Heritage knowledge of Russian equal to or higher than minimum one year of Russian UMD language classes or appropriate Foreign Language Placement Testing (FLPT) score. Restriction: For heritage speakers only, i.e., Russian speakers who grew up outside of Russia with different levels of Russian, wanting to gain literacy and improve their Russian overall. Credit only granted for: RUSS201 or RUSS203.

Designed for heritage speakers of Russian, with the goal of attaining competency in written Russian while improving speaking and reading skills.

0101	Marianna Landa	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 1117

RUSS301 **Advanced Russian I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of Russian.

Advanced training in written Russian communicative structures.

0101	Katherine Moskver	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 3205

RUSS303 **Russian Conversation: Functional Skills**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department.

Intended for students who do not anticipate having the opportunity to study in Russia. Skills for daily life (both function and etiquette) and argumentation (rhetoric).

0101	Elena Lozinsky	Seats (Total: 15)
	TuTh 9:30am - 10:45am	JMZ 1117

RUSS361 **Dostoevsky's Life and Works**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Credit only granted for: RUSS361 or RUSS298P. Formerly: RUSS298P.

A study of Dostoevsky's major works with reference to related developments in Russian and European culture, literary criticism, and intellectual history. Interdisciplinary investigation of Dostoevsky's contemporary relevance and tremendous international popularity.

Taught in English.

0101	Marianna Landa	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 2207

RUSS381 **Russian Civilization (in Russian) I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS202.

A historical survey of Russian civilization emphasizing architecture, painting, sculpture, music, ballet and the theater to the beginning of the 19th century pointing out the interrelationship of all with literary movements. Taught in Russian.

0101	Cynthia Martin	Seats (Total: 15)
	MW 2:00pm - 3:15pm	JMZ 1215

RUSS386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

RUSS401 **Advanced Russian Composition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: RUSS302; or students who have taken courses with comparable content may contact the department. Restriction: Not open to native speakers of Russian.

Approaches to argumentation, organization of information, contextualize grammar, appropriateness of lexical choice, genre, and register.

0101	Elena Lozinsky	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 2123

RUSS405 **Russian-English Translation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in RUSS302.

Introduction to the principles of translation of a particular genre, and is typically diplomatic, business, or literary.

0101	Elena Lozinsky Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm	Seats (Total: 15) JMZ 1120 JMZ 1117

RUSS499 **Independent Study in Russian**

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

RUSS499G **Independent Study in Russian; Russian Phonetics and Conversation**

Credits: 1 Grading Method: Regular

Independent study under faculty supervision.

0101	Zhanna Gerus-Vernola W 12:00pm - 12:50pm	Seats (Total: 15) JMZ 0208

RUSS798 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

RUSS799 **Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA Second Language Acquisition and Application Fall 2015

SLAA498 **Second Language Research and Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular

Individualized research and practicum for undergraduate students to work as Undergraduate Research Assistants (UGRA) on existing projects under the supervision of a PhD Graduate Supervisor (GS) in the area of second language acquisition to learn/experience how second language as well as psycholinguistic research is conducted.

Prerequisite: permission of department.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
3345	Instructor: TBA	Seats (Total: 5)

SLAA610 **Research and Theories in Second Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Introduction to current theories and research findings Second Language Acquisition (SLA).

0101	Michael Long M 2:00pm - 4:30pm	Seats (Total: 10) JMZ 1122

SLAA611 **Fundamentals of Foreign Language Acquisition and Instruction**

Credits: 3 Grading Method: Regular, Audit

Introduction to theoretical and practical issues relevant to foreign language learning, language acquisition, and curriculum construction.

0101	Robert De Keyser W 4:00pm - 6:30pm	Seats (Total: 10) JMZ 3205

SLAA629A **Special Topics in Sociolinguistics; Variationist Sociolinguistics**

Credits: 3 Grading Method: Regular, Audit

Current topics in research in sociolinguistics.

0101	Steven Ross F 2:00pm - 4:30pm	Seats (Total: 10) JMZ 2123

SLAA649R **Special Topics in Second Language Acquisition; Research Critique**

Credits: 3

Grading Method: Regular, Audit

Current topics in research in second language acquisition.

0101	Robert De Keyser	Seats (Total: 10)
	Th 5:00pm - 7:30pm	JMZ 2122

SLAA650 **Second Language Analysis**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: SLAA610; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An overview of the field of linguistics with a particular attention to its application in SLA studies, introduces students to the basic concepts and skills related to the scientific study of language, and provides them with opportunities to apply these concepts and skills in the analysis of language. It covers topics such as phonetics, phonology, morphology, syntax, semantics, language acquisition, and language use.

0101	Nan Jiang	Seats (Total: 10)
	Tu 1:00pm - 3:30pm	JMZ 3122

SLAA719 **Second Language Acquisition and Application Internship**

Credits: 3

Grading Method: Regular, Audit

Internship at a site to be determined. Topics may include heritage language learning, immersion education, testing and assessment, translation and interpretation, and national language planning and policy.

Contact department for information to register for this course.

SLAA742 **Second Language Processing**

Credits: 3

Grading Method: Regular, Audit

Restriction: Permission of instructor required for MA students.

Covers leading theoretical approaches and experimental methods in secon language processing. Draws on research and theories in Second Language Acquisition (SLA), formal linguistics, cognitive grammar, psycholinguistics, and neurolinguistics.

0101	Nan Jiang Th 2:00pm - 4:30pm	Seats (Total: 10) Location: TBA

SLAA750 **Instructed Second Language Acquisition**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SLAA610.

Survey of studies on effectiveness of SLA instruction within various domains of language, with focus on research design.

0101	Michael Long Tu 4:00pm - 6:30pm	Seats (Total: 10) JMZ 3122

SLAA779 **Directed Research in Second Language Acquisition and Application**

Credits: 1-3 Grading Method: Regular, Audit

Directed independent research in Second Language Acquisition or Application. In this capstone project, students engage in independent research under faculty direction.

Contact department for information to register for this course.

SLAA798 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

SLAA799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA888 **Doctoral Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Individual instruction course.

Contact department for information to register for this course.

SLAA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLAA899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SLLC School of Languages, Literatures and Cultures — Fall 2015

SLLC108T **Beg Less Commonly Taught Language I; Turkish**

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level. Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

BL01	Instructor: TBA	Seats (Total: 10)
	MW 12:30pm - 1:45pm	JMZ 1123
	Class time/details on ELMs	ONLINE

SLLC108V **Beg Less Commonly Taught Language I; Vietnamese I**

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level. Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

First year Vietnamese is a CIC CourseShare online course. The instructor is at Michigan State University, but you enroll and receive credit for it at Maryland. You will also need to be entered into the Michigan State University course management system Desire to Learn (D2L), which will happen at the beginning of the semester. If you add this course late, you will need to contact the course coordinator immediately to get you added on the Michigan State side. Course coordinator: Danielle Steider, steider@msu.edu, 517-355-5105. Heritage speakers and those with prior knowledge of Vietnamese also need to contact Ms. Steider before enrolling in the course to determine appropriate placement. There will be no additional seats and the course cannot be added after September 2, 2015. Please note: Although this is an online course, it is NOT self-paced. There are weekly assignments and virtual meetings (several options will be available to match your schedules).

0101	Instructor: TBA	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC169B **Special Topics in Study Abroad I; Elementary Basque I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169C **Special Topics in Study Abroad I; Elementary Basque II**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169D **Special Topics in Study Abroad I; Great Czech Writers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC169L **Special Topics in Study Abroad I; Basque Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269B **Special Topics in Study Abroad II; Scandinavian Moods in Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269D **Special Topics in Study Abroad II; Catalan Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269X **Special Topics in Study Abroad II; Intermediate Basque I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269Y **Special Topics in Study Abroad II; Intermediate Basque II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC285 **European Encounters with New Worlds**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, SCIS

Studies travel accounts, maps and visual images from Marco Polo, Christopher Columbus, Amerigo Vespucci and others to gain insight into resilient mechanisms of cross-cultural perception, communication, and representation that inform cross-cultural encounters today. Taught in English.

0101	Andrea Frisch MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) TYD 0117 JMZ 0103	Discussion
0102	Andrea Frisch MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) TYD 0117 JMZ 2122	Discussion
0103	Andrea Frisch MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 20) TYD 0117 JMZ 0120	Discussion

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SLLC299P **Special Topics in World Cultures; Behavior of the Rich and Powerful, Past and Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Topic to be announced when course is offered.

Through the study of XV and XVI century courtesy literature, in this course we will explore the various forms of behavior of the rich and powerful of the Italian Renaissance, an era that is much closer to our contemporary world than we might initially think, especially in regard to the way political and influential figures act in social situations and the image of themselves they present to others. What can we learn from observing and comparing the behavior of the rich and powerful of the past and present? In the public arena of these two worlds, does appearance matter more than truth?

FC01	Joseph Falvo TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 2117

SLLC299R **Special Topics in World Cultures; Elementary Italian I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299Z **Special Topics in World Cultures; Spanish Civilization and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC309 **Language Partner Program**

(Perm req)

Credits: 1 Grading Method: Regular

For intermediate- to advanced-level language study. Conversations entirely in target language with native speaker.

0101	Mary Scullen M 4:00pm - 5:50pm	Seats (Total: 50) Location: TBA
0102	Instructor: TBA	Seats (Total: 10)
0103	Instructor: TBA	Seats (Total: 10)
0104	Instructor: TBA	Seats (Total: 10)
0105	Instructor: TBA	Seats (Total: 10)

0106	Instructor: TBA	Seats (Total: 10)
0108	Instructor: TBA	Seats (Total: 10)
0109	Instructor: TBA	Seats (Total: 10)
0110	Instructor: TBA	Seats (Total: 10)

SLLC369A **Special Topics in Study Abroad III; Alternative Culture, Literature, Music and Lifestyles**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369C **Special Topics in Study Abroad III; Czech Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369D **Special Topics in Study Abroad III; Art and Dictatorship**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369X **Special Topics in Study Abroad III; Advanced Basque I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369Y **Special Topics in Study Abroad III; Advanced Basque II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC386 **Experiential Learning**

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor and the student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SLLC601 **Teaching Foreign Languages in Higher Education**

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department. Credit only granted for: SLLC601 or SPAN605. Formerly: SPAN605.

Methods and materials for teaching foreign languages in higher education.

0101	Regina Ianozi M 3:00pm - 4:15pm	Seats (Total: 10) JMZ 2120

SLLC789 **Master's Independent Study**

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

SOCY Sociology Fall 2015

SOCY100 **Introduction to Sociology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

0201	Ann Forsythe MWF 8:00am - 8:50am	Seats (Total: 60) ASY 1213
0301	Robert Pernick MWF 9:00am - 9:50am	Seats (Total: 54) ASY 2309
0401	Robert Pernick MWF 11:00am - 11:50am	Seats (Total: 60) ASY 1213

0601	Willie Thompson TuTh 9:30am - 10:45am	Seats (Total: 54) ASY 2309
0901	Sarah Wanenchak TuTh 2:00pm - 3:15pm	Seats (Total: 54) ASY 2309
FC01	Ann Forsythe MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) ASY 2309
FC02	Willie Thompson TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) ASY 1213

SOCY100H **Introduction to Sociology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

Open to Honor students only.

0101	Jenelle Clark MWF 10:00am - 10:50am	Seats (Total: 25) ASY 3203

SOCY105 **Introduction to Contemporary Social Problems**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

0101	Daniel Swann TuTh 12:30pm - 1:45pm	Seats (Total: 60) ASY 2309
0201	Jenelle Clark MW 3:30pm - 4:45pm	Seats (Total: 54) TYD 1102

0301	Jenelle Clark MWF 9:00am - 9:50am	Seats (Total: 54) ASY 1213	
0501	Daniel Swann TuTh 3:30pm - 4:45pm	Seats (Total: 60) ASY 1213	
0801	Jonathan Cox MW 2:00pm - 3:15pm	Seats (Total: 60) ASY 1213	
FC01	Sarah Wanenchak TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 39) ASY 3203	

SOCY120 **Veterans in American Society: What does America Owe Its Veterans**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

An examination of current and past policies toward compensation for military veterans, data and evidence on current and past adjustments to life after military service, historical variations in the mechanisms for staffing the military, and trends in the contours of the lives of those who do not serve.

0101	Meredith Kleykamp MW 2:00pm - 2:50pm F 8:00am - 8:50am	Seats (Total: 20) ASY 2309 EDU 2101	Discussion
0102	Meredith Kleykamp MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) ASY 2309 EDU 2101	Discussion
0103	Meredith Kleykamp MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) ASY 2309 ARC 1121	Discussion
0104	Meredith Kleykamp MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) ASY 2309 LEF 1201	Discussion

SOCY125 **Why does Educational Inequality in the U.S. Persist?Explaining Differences in Educational Attainment**

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores questions related to educational inequality in the US. Examines what variables other than individual ability and effort influence educational attainment - how well and how far we go in school.

0101	Linda Moghadam MW 10:00am - 10:50am F 8:00am - 8:50am	Seats (Total: 20) ASY 1213 ASY 3219	Discussion
0102	Linda Moghadam MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 20) ASY 1213 TWS 0214	Discussion
0103	Linda Moghadam MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) ASY 1213 TYD 2108	Discussion
0104	Linda Moghadam MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) ASY 1213 ARC 1123	Discussion

SOCY200 **Human Societies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

A comparative, historical, interdisciplinary study of human socieities that focuses on the main components of human societies, how they are organized, how they change, and how they come to shape our collective social existence.

0602	John Pease TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 18) ASY 2203 ASY 3203	Discussion
0604	John Pease TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 18) ASY 2203 KNI 1105	Discussion
0605	John Pease TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 18) ASY 2203 ASY 3211	Discussion
0606	John Pease TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2203 ASY 3203	Discussion

0608	John Pease TuTh 12:30pm - 1:45pm F 2:00pm - 2:50pm	Seats (Total: 20) ASY 2203 ASY 3219	Discussion
0609	John Pease TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 20) ASY 2203 ASY 3219	Discussion

SOCY200H **Human Societies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, SCIS

A comparative, historical, interdisciplinary study of human socieities that focuses on the main components of human societies, how they are organized, how they change, and how they come to shape our collective social existence.

Open to Honors students only.

0101	John Pease TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 15) ASY 2203 EDU 3236	Discussion

SOCY201 **Introductory Statistics for Sociology**

(Perm req)

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: SOCY100 and MATH111; or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

Elementary descriptive and inferential statistics. Construction and percentaging of bivariate contingency tables; frequency distributions and graphic presentations; measures of central tendency and dispersion; parametric and nonparametric measures of association and correlation; regression; probability; hypothesis testing; the normal, binomial and chi-square distributions; point and interval estimates.

0101	Alan Neustadtl TuTh 11:00am - 12:15pm M 8:00am - 9:50am	Seats (Total: 20) ASY 2309 LEF 0214	Lab
0102	Alan Neustadtl TuTh 11:00am - 12:15pm M 10:00am - 11:50am	Seats (Total: 20) ASY 2309 LEF 0214	Lab

0103	Alan Neustadtl TuTh 11:00am - 12:15pm M 12:00pm - 1:50pm	Seats (Total: 20) ASY 2309 LEF 0214	 Lab
0104	Alan Neustadtl TuTh 11:00am - 12:15pm M 2:00pm - 3:50pm	Seats (Total: 20) ASY 2309 LEF 0214	 Lab

SOCY202 **Introduction to Research Methods in Sociology**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: SOCY201.

The underlying logic, major strategies, specific techniques and skills of sociological research. Research design, measurement, data collection, sampling, field research experiments, surveys, index and scale construction, data analysis, interpretation and report writing.

0201	Christina Prell TuTh 11:00am - 12:15pm W 8:00am - 8:50am	Seats (Total: 20) ASY 1213 LEF 0221	 Lab
0202	Christina Prell TuTh 11:00am - 12:15pm W 9:00am - 9:50am	Seats (Total: 20) ASY 1213 LEF 0221	 Lab
0203	Christina Prell TuTh 11:00am - 12:15pm W 10:00am - 10:50am	Seats (Total: 20) ASY 1213 LEF 0221	 Lab
0204	Christina Prell TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 20) ASY 1213 LEF 0221	 Lab

SOCY203 **Sociological Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY100.

Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.

0201	Meyer Kestnbaum TuTh 2:00pm - 3:15pm	Seats (Total: 80) ASY 1213

SOCY220 **Analyzing Controversial Social Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Various perspectives on contemporary social issues such as global warming, immigration policy, and inequality are analyzed using a sociological framework. Various methodological approaches will be explored for identifying best strategies resolution and advocacy of these issues.

0101	Kurt Finsterbusch TuTh 9:30am - 10:45am	Seats (Total: 40) ASY 1213
0102	Kurt Finsterbusch TuTh 3:30pm - 4:45pm	Seats (Total: 40) ASY 3207

SOCY227 **Introduction to the Study of Deviance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Credit only granted for: SOCY227 or SOCY327. Formerly: SOCY327.

An introduction to the sociological study of deviant behavior, covering such topics as mental illness, sexual deviance, and the use of drugs.

0101	David Strohecker MWF 1:00pm - 1:50pm	Seats (Total: 50) ASY 1213
0201	David Strohecker MWF 12:00pm - 12:50pm	Seats (Total: 50) ASY 1213

SOCY230 **Sociological Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Theoretical perspectives and their applications. Socialization through the life course, the self-concept, attitudes, emotion, attribution, interpersonal relations, group processes, deviance, and social change.

0101	Jeffrey Lucas MW 2:00pm - 3:15pm	Seats (Total: 192) ASY 2203

SOCY241 **Inequality in American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D

The dynamics of inequality: its social production, politics, future, and ideological bases. Utopian communities, efforts to eliminate inequality.

0101	Akilah Watkins-Butler TuTh 2:00pm - 3:15pm	Seats (Total: 45) ASY 3203	

SOCY243 **Contemporary Family Issues**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

An exploration of empirical patterns and trends, political and cultural debates, and policy issues including the major theories and research methods used in the sociological study of the family .

0102	Philip Cohen MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 20) ASY 2309 ASY 3215	Discussion
0103	Philip Cohen MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 20) ASY 2309 SQH 1119	Discussion
0104	Philip Cohen MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) ASY 2309 KEY 0126	Discussion

SOCY325 **The Sociology of Gender**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Prerequisite: 3 credits in SOCY courses. Also offered as: WMST325. Credit only granted for: SOCY325 or WMST325.

Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.

0101	Perry Threlfall MWF 8:00am - 8:50am	Seats (Total: 60) ASY 2309	

0301	Perry Threlfall MWF 10:00am - 10:50am	Seats (Total: 80) ASY 2309
0901	Liana Sayer TuTh 12:30pm - 1:45pm	Seats (Total: 80) ASY 1213

SOCY380 **Honors Independent Reading in Sociology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of BSOS-Sociology department. Formerly: SOCY378.

This course permits sociology honor students to undertake a program or reading on a particular problem in sociology or a subfield therein. The reading will be done under the supervision of a member of the sociology faculty. Required of sociology honor students.

0101	Linda Moghadam Contact instructor or department for details.	Seats (Total: 10)

SOCY381 **Honors Independent Research in Sociology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY380. Formerly: SOCY388.

This course permits sociology students to define a particular problem in sociology or a subfield therein and to develop a research plan for use as a thesis topic. The work will be done under the supervision of a member of the sociology faculty.

Contact department for information to register for this course.

SOCY383 **Honors Thesis Research**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SOCY381. Formerly: SOCY389.

Student research under the direction of a member of the sociology faculty, culminating in the presentation and defense of a thesis reporting the research.

Contact department for information to register for this course.

SOCY386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Restriction: Permission of BSOS-Sociology department; and junior standing or higher.

To register, students must have departmental permission form signed by instructor and by Coordinator of Sociology Undergraduate Program.

Contact department for information to register for this course.

SOCY398I **Special Topics in Sociology; Theories of Immigration: Israel as a Case Study**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

Also offered as ISRL349K. Credit will be granted for one of the following ISRL349K or SOCY398I. Over 90% of Israel's Jewish population is made of first, second or third generation immigrants, who came from over 70 countries, making Israel an ultimate immigrant society. This course will focus on the history of Israel as a case study for the understanding of the historical phenomena of modern immigration.

0101	Pnina Peri	Seats (Total: 35)
	MW 2:00pm - 3:15pm	SQH 1121

SOCY398P **Special Topics in Sociology; Maryland Internship**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

0101	Raymond Williams	Seats (Total: 10)
	Tu 6:30pm - 9:15pm	TYD 2108

SOCY398Q **Special Topics in Sociology; Politics of Nation Building**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

Also offered as ISRL349J. Credit granted for ISRL349J or SOCY398Q. Since Israel was established in 1948, the education system has played a major role in developing the Israeli identity. We will examine dominant discourses and debates pertaining to Israeli cultural identity, such as the centrality of the Holocaust, security issues, minorities, religious education, role of literature in national narrative, the role of politics in citizenship education and contemporary debates over History education.

0101	Pnina Peri	Seats (Total: 25)
	MW 3:30pm - 4:45pm	SQH 1121

SOCY399 **Independent Study in Sociology**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

No more than 6 hours of 399 is allowed for credit.

Contact department for information to register for this course.

SOCY410 **Social Demography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Types of demographic analysis; demographic data; population characteristics; migration; mortality; fertility; population theories; world population growth; population policy.

0101	Feinian Chen	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	ASY 3207

SOCY412 **Family Demography**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses. Formerly: SOCY312.

Family and population dynamics. Fertility issues, such as teenage pregnancy, the timing of parenthood, and family size; as they relate to family behavior, such as marital patterns, child care use, and work and the family. Policy issues that relate to demographic changes in the family.

0101	Feinian Chen	Seats (Total: 29)
	TuTh 9:30am - 10:45am	ASY 3207

SOCY415 **Environmental Sociology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses. Credit only granted for: SOCY498E or SOCY415. Formerly: SOCY498E.

Overview of the field and theoretical themes within the area of environmental sociology and technology. Current issues are explored including: environmental attitudes; environmental movements; environmental justice; globalization; global climate change; and garbage and food.

0101	Dana Fisher	Seats (Total: 29)
	TuTh 2:00pm - 3:15pm	ASY 3207

SOCY424 **Sociology of Race Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Also offered as: AAST424. Credit only granted for: AAST424 or SOCY424.

Analysis of race-related issues, with a primary focus on American society. The historical emergence, development, and institutionalization of racism; the impact of racism on its victims; and racially based conflict.

0101	Kris Marsh	Seats (Total: 29)
	TuTh 8:00am - 9:15am	ASY 3207

SOCY431 **Principles of Organizations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Structural and processual characteristics of organizations that make them effective for different purposes and in different environments. Effects of different institutional environments, small group processes, organizational networks, and leadership. Types of organizations studied include formal bureaucracies, professional organizations, and voluntary associations.

0101	Kurt Finsterbusch	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	ASY 3207

SOCY498B **Selected Topics in Sociology; Black Social Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Patricia Collins	Seats (Total: 26)
	W 3:30pm - 6:00pm	ASY 3221

SOCY498C **Selected Topics in Sociology; Socio-Ecological Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Christina Prell	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	ARC 1105

SOCY498D **Selected Topics in Sociology; Demography of Aging**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Prerequisite: Restricted to Sociology majors or permission of departmen t.

0101	Joan Kahn	Seats (Total: 29)
	MW 2:00pm - 3:15pm	ASY 3207

SOCY498E **Selected Topics in Sociology; Researching the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Mansoor Moaddel	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ASY 3203

SOCY498M **Selected Topics in Sociology; Residential Segregation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Restricted to Sociology Graduate Students and Majors or permission of Department.

0101	Kris Marsh	Seats (Total: 29)
	TuTh 9:30am - 10:45am	ASY 3203

SOCY498N **Selected Topics in Sociology; Sociology of Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Restricted to Sociology Majors or Permission of Department.

0101	Andres Villarreal	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	ASY 3203

SOCY498P **Selected Topics in Sociology; Attitudes and Public Opinion**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Stanley Presser	Seats (Total: 20)
	M 3:00pm - 5:30pm	ASY 3219

SOCY602 **Statistics For Sociological Research II**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY601; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor. Credit only granted for: SOCY602 or SURV602.

This course introduces regression analysis using matrix algebra. Topics include bivariate regression, multivariate regression, tests of significance, regression diagnostics, indicator variables, interaction terms, extra sum of squares, and the general linear model. Other topics may be addressed such as logistic regression and path analysis. Statistical programming software may be used.

0101	Alan Neustadtl Th 3:30pm - 6:00pm	Seats (Total: 20) ASY 1101

SOCY611 **Introduction to Demographic Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Survey of standard demographic methods for the description and analysis of population size, structure and composition, including techniques for the analysis of fertility, mortality and migration.

0101	Joan Kahn W 3:30pm - 6:00pm	Seats (Total: 20) ASY 3207

SOCY620 **Development of European and American Sociological Theory**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SOCY203 or SOCY403; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Review of the history of sociological thought with major attention to the key figures (from Marx to C. Wright Mills).

For SOCY majors only.

0101	Meyer Kestnbaum Tu 3:30pm - 6:00pm	Seats (Total: 20) ASY 4111

SOCY633 **Qualitative Research Methods II, Field Research**

Credits: 3 Grading Method: Regular

Prerequisite: SOCY632; or students who have taken courses with comparable content may contact the department.

As the second course in the qualitative methods sequence, students are expected to have a general knowledge of qualitative methods. Students should have already learned how to collect and analyze qualitative data using interview and ethnographic methods. Student will spend this semester collecting and analyzing qualitative data and must begin the course with a formulated research question, a plan for data collection and sampling. Each student will spend the first two weeks preparing a proposal for submission the the University of Maryland's Institutional Review Board to gain Human Subjects approval to collect data. Then, students will spend a month collecting data, a month analyzing data using QSR NVivo, which will be taught as part of the coursework, and writing up the findings. The end product of the course will be an empirical paper based on the data collected and analyzed throughout the semester.

Restricted to Sociology graduate studetns or permission of instructor.

0101	Dana Fisher	Seats (Total: 20)
	M 3:30pm - 6:00pm	ASY 1101

SOCY660 **Theories of Social Psychology**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed an undergraduate training in sociological research methods, statistics, and theory; or students who have taken courses with comparable content may contact the department.

An introduction to some of the theories in social psychology that are particularly useful to sociologists. Topics to be covered include theories of cognitive consistency, social exchange, symbolic interaction, role theory, group processes, and collective behavior.

Restricted to Sociology graduate students or permission of instructor.

0101	Rashawn Ray	Seats (Total: 20)
	W 3:30pm - 6:00pm	ASY 1101

SOCY699 **Special Social Problems**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SOCY699A **Special Social Problems; Sociology Teaching Assistants Seminar**

Credits: 1 Grading Method: Regular, Audit

Restricted to Sociology Graduate Students

0101	Linda Moghadam M 12:00pm - 12:50pm	Seats (Total: 20) ASY 4111

SOCY699D **Special Social Problems; Logic of Social Inquiry**

Credits: 3 Grading Method: Regular, Audit

Restricted to Sociology Graduate Students

0101	Jeffrey Lucas Th 3:30pm - 6:00pm	Seats (Total: 20) ASY 1117

SOCY699K **Special Social Problems; Diversity in the Military**

Credits: 3 Grading Method: Regular, Audit

Restricted to Sociology graduate students or permission of instructor.

0101	Meredith Kleykamp M 6:30pm - 9:00pm	Seats (Total: 20) ASY 4111

SOCY699P **Special Social Problems; Pro-Seminar in Sociology**

Credits: 1 Grading Method: Regular, Audit

Restricted to Sociology Graduate Students.

0101	Liana Sayer Tu 6:30pm - 7:20pm	Seats (Total: 20) ASY 4111

SOCY729B **Advanced Special Topics in Substantive Theory; Intersectionality**

Credits: 3 Grading Method: Regular, Audit

An intensive examination of an area of interest in theory or a school of sociological theory, including such topics as ethnomethodology; structuralism; Marxism and critical theory; historical study of a major sociological theorist such as Marx, Weber, or Durkheim.

Restricted to Sociology graduate students or permission of instructor.

0101	Patricia Collins	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ASY 1117

SOCY799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SOCY819 **Research Seminar in Social Psychology**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in social psychology.

0101	Jeffrey Lucas	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY829 **Research Seminar in Sociological Theory**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in sociological theory.

0101	Meyer Kestnbaum	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY849 **Research Seminar in Demography**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in demography.

0101	Sonalde Desai	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY858 **Research Seminar in Gender, Work and Family**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take the specialty examination in Gender, Work and Family.

0101	Liana Sayer	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY869 **Research Seminar in Military Sociology**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in military sociology.

0101	Meredith Kleykamp	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY889 **Research Seminar in Social Stratification**

Credits: 1 Grading Method: Regular, Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in stratification.

0101	Philip Cohen	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SOCY899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

SPAN Spanish Fall 2015

SPAN103 **Intensive Elementary Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Keisha Allan MW 10:00am - 10:50am Tu 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) JMZ 1117 JMZ 0120 JMZ 1124
0201	Daniela Bulansky MWF 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 25) TLF 1103 JMZ 1122
0301	Carla Onate MWF 12:00pm - 12:50pm Tu 12:00pm - 12:50pm	Seats (Total: 25) JMZ 2123 JMZ 1124
0401	Carla Onate MWF 1:00pm - 1:50pm Tu 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1215 JMZ 1124
0501	Carla Onate MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) JMZ 3205 TLF 1101
0601	Norman Mora Quintero MWF 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 25) JMZ 0120 JMZ 0208

SPAN169O **Special Topics in Study Abroad I; Beginner Spanish I**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169P **Special Topics in Study Abroad I; Beginner Spanish II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169Y **Special Topics in Study Abroad I; Elementary Spanish II**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN203 **Intensive Intermediate Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Douglas Glynn MWF 9:00am - 9:50am Th 9:00am - 9:50am	Seats (Total: 25) JMZ 0103 JMZ 0205
0201	Douglas Glynn MW 10:00am - 10:50am Th 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) JMZ 1124 JMZ 0205 JMZ 0125
0301	Matthew Lewis MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) JMZ 0208 JMZ 1120
0401	Nancy Naranjo Garcia MWF 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) SKN 1112 JMZ 0208

0501	Matthew Lewis MWF 12:00pm - 12:50pm Th 12:00pm - 12:50pm	Seats (Total: 25) JMZ 3203 JMZ 0208
0601	Monica Ocasio MWF 1:00pm - 1:50pm Th 1:00pm - 1:50pm	Seats (Total: 25) JMZ 0120 JMZ 0122
0701	Evelyn Canabal-Torres MWThF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1124
0801	Evelyn Canabal-Torres MWThF 2:00pm - 2:50pm	Seats (Total: 25) JMZ 1124

SPAN204 **Spanish Grammar Review**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0301	Sebastian Bartis MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 0205
0401	Mary Hernandez-Gordillo MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 2122
0501	Mary Hernandez-Gordillo MWF 2:00pm - 2:50pm	Seats (Total: 25) JMZ 2122
BL01	Jose Contreras MWF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 25) JMZ 0118 ONLINE
BL02	Sebastian Bartis MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 25) JMZ 0118 ONLINE

SPAN206 **Review of Oral and Written Spanish for Native Speakers Educated in the United States**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must have native or near native knowledge of oral Spanish; and must have no formal education in Spanish.

Review of oral and written Spanish for students who have native or near-native ability in Spanish, but have never studied it in a formal setting.

Offered fall only.

0101	Evelyn Canabal-Torres MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 2122

SPAN207 **Reading and Writing in Spanish**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: Minimum grade of B+ in SPAN203; or must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

0101	Maria Monsalve MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 2207
0201	Chila Hidalgo MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1224
0301	Chila Hidalgo MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 1224
0401	Meghan Hamorsky MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 3203
0501	Meghan Hamorsky MWF 2:00pm - 2:50pm	Seats (Total: 25) JMZ 2207

SPAN234 **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: PORT234, LASC234. Credit only granted for: SPAN234, PORT234, or LASC234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

0101	Lucinda Grinnell MW 11:00am - 12:15pm	Seats (Total: 30) KEY 0125
0201	Reid Gustafson TuTh 11:00am - 12:15pm	Seats (Total: 35) WDS 0104

SPAN234H **Issues in Latin American Studies I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHS, DSHU, DVUP

Also offered as: PORT234, LASC234. Credit only granted for: SPAN234, PORT234, or LASC234.

Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.

Open to Honor students only.

0101	Lucinda Grinnell MW 11:00am - 12:15pm	Seats (Total: 5) KEY 0125

SPAN269A **Special Topics in Study Abroad II; B1 Intermediate Level Spanish I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269B **Special Topics in Study Abroad II; B1 Intermediate Level Spanish II**

Credits: 6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269D **Special Topics in Study Abroad II; Catalan Language and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269I **Special Topics in Study Abroad II; Intermediate Spanish**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269L **Special Topics in Study Abroad II; Spanish Language B1**

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN301 **Advanced Grammar and Composition I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

0401	Daybert Linares MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 0103
0501	Maria Bort Caballero MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 20) JMZ 3205 JMZ 0118
0601	Melissa Gonzalez-Contreras MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 2207
0701	Melissa Gonzalez-Contreras MWF 2:00pm - 2:50pm	Seats (Total: 20) JMZ 0205

BL01	Daybert Linares MWF 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 20) JMZ 2207 ONLINE
BL02	Ana Acedo Garcia MWF 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 20) JMZ 2117 ONLINE
BL03	Ana Acedo Garcia MWF 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 20) JMZ 2120 ONLINE

SPAN302 **Advanced Grammar and Composition II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

0201	Douglas Glynn MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 0122
BL01	Matthew Lewis MWF 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 20) JMZ 0122 ONLINE

SPAN303 **Approaches to Cultural Materials in the Hispanic World**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN207; or permission of instructor.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

0101	Luis Charry MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 2120
0201	Luis Charry MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 1124

0301	Aida Garcia Revuelta MW 2:00pm - 3:15pm	Seats (Total: 20) JMZ 2125
0401	Ana Rodriguez TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 2117
0501	Mehl Penrose MW 2:00pm - 3:15pm	Seats (Total: 20) JMZ 2206
0601	Aida Garcia Revuelta MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 2117

SPAN306 **Spanish II for Native Speakers**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN206.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical and stylistic devices will be highlighted. Designed for Spanish speakers educated in English.

0101	Evelyn Canabal-Torres MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 3120

SPAN310 **Spanish Phonetics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; and permission of ARHU-School of Languages, Literatures, and Cultures department.

Descriptive study of the Spanish sound system. Practice in phonetic perception, transcription, and articulation. Particular attention to sentence phonetics; juncture, rhythm, stress, pitch.

0101	Ana Acedo Garcia MWF 9:00am - 9:50am	Seats (Total: 20) JMZ 2123

SPAN315 **Commercial Spanish I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments.

Offered fall only.

0101	Kayla Watson MWF 9:00am - 9:50am	Seats (Total: 25) JMZ 2206
0201	Fabian Faccio MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 2206
0301	Fabian Faccio MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 2206
0401	Ginette Eldredge MWF 12:00pm - 12:50pm	Seats (Total: 25) JMZ 2206
0501	Ginette Eldredge MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 2206

SPAN316 **Practicum in Translation I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Translation of non-literary, non-technical texts into Spanish and/or English.

Offered fall only.

0101	Macarena Garcia-Avello Fernandez-Cueto MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 1120
0201	Macarena Garcia-Avello Fernandez-Cueto MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 3203
0301	Maria Gomez-Martin MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 2207

SPAN317 **Translation II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN316.

Translation of non-literary, non-technical texts into Spanish and/or English.

Contact department for information to register for this course.

SPAN318 **Translation of Technical Texts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Translation of technical and specialized texts in various fields (e.g. medicine, law, international affairs, social work, journalism, technology) into Spanish and/or English.

0101	Maria Gomez-Martin	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 2123

SPAN331 **Spanish Culture, Civilization and Literature I: Medieval Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN325 or SPAN321. Credit only granted for: SPAN321, SPAN325, or SPAN331.

The exploration of cultures of the Iberian Peninsula from its origins until the 15th century as well as the study of historical and political events that gave rise to the Spanish state. Taught in Spanish.

0101	Hernan De Pinillos	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 0205

SPAN332 **Spanish Culture, Civilization and Literature II: Renaissance and Baroque**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor.

An overview of cultural and literary production of Spain from the late 15th through late 17th centuries, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN333 **Spanish Culture, Civilization and Literature III: Modern Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN322 or SPAN326. Credit only granted for: SPAN322, SPAN326, or SPAN333.

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

0101	Jose Naharro-Calderon TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 0205

SPAN359A **Spanish for the Professions; Spanish in the Media**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploration of cultural and linguistic skills for different professional contexts including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary.

Prerequisite: SPAN316.

0101	Maria Monsalve MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 3120

SPAN361 **Latin American Literatures and Cultures I: From Pre-Columbian to Colonial Times**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN323 or SPAN346. Credit only granted for: SPAN361, SPAN323, or SPAN346.

Overview of cultural history of Latin America from pre-Columbian civilizations to the Colonial period, exploring the foundations of the Spanish American cultural and literary tradition to approximately 1770. Taught in Spanish.

0101	Laura Demaria TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 1122
0201	Eyda Merediz TuTh 3:30pm - 4:45pm	Seats (Total: 25) JMZ 0103

SPAN362 **Latin American Literatures and Cultures II: From Independence to Nation Formation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor.

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

Contact department for information to register for this course.

SPAN363 **Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN324 or SPAN347. Credit only granted for: SPAN324, SPAN347, or SPAN363.

An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

0101	Chila Hidalgo MWF 10:00am - 10:50am	Seats (Total: 25) JMZ 0205
0201	Saul Sosnowski TuTh 2:00pm - 3:15pm	Seats (Total: 25) JMZ 2206

SPAN369A **Special Topics in Study Abroad III; Advanced Oral Communication in Spanish**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369B **Special Topics in Study Abroad III; Advanced Academic Writing in Spanish**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369F **Special Topics in Study Abroad III; Spanish Oral Skills through Theatre**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369G **Special Topics in Study Abroad III; Spanish for the Health Professional**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369J **Special Topics in Study Abroad III; Spanish Grammar and Expression**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369M **Special Topics in Study Abroad III; Spanish Language B2**

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369O **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369P **Special Topics in Study Abroad III; Spanish Oral Techniques**

Credits: 2

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Q **Special Topics in Study Abroad III; Spanish Phonetics and Phonology**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369R **Special Topics in Study Abroad III; Advanced Reading Skills in Spanish**

Credits: 1

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369V **Special Topics in Study Abroad III; Advanced Present-Day Spanish Usage**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369W **Special Topics in Study Abroad III; Spanish Stylistics: Advanced Spanish Writing and Stylistics**

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Y **Special Topics in Study Abroad III; B2 Advanced Level Spanish 1**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Z **Special Topics in Study Abroad III; B2 Advanced Level Spanish 2**

Credits: 6

Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN386 **Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular, Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SPAN399 **Independent Study in Spanish**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature or a translation project under the supervision of a faculty member of the department.

Prerequisite: permission of department.

Contact department for information to register for this course.

SPAN401 **Advanced Composition I**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408C **Great Themes of the Hispanic Literatures; Mexican Politics in Literature and Film**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

This course focuses on literary and cinematic representations of the most important social and political events and tendencies in Mexico from the beginning of the Revolution of 1910 until the present. We will look at the so-called Novel of the Revolution and some of the most prominent related films. The class will also study the Mexican Student Movement of 1968 and how it has influenced calls for political reform and social movements, such as the struggles for women's rights and equality for sexual minorities. Other central topics will be cultural representations of the 1985 Mexico City earthquake, the Zapatista uprising of 1994, the political transition of 2000, and narcotrafficking.

0101	Ryan Long	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 2122

SPAN408D **Great Themes of the Hispanic Literatures; Don Quixote**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

The course consists in a chapter by chapter commentary of Don Quixote. The novel will be commented at the literal and historical levels, as well as in its philosophical and widely anthropological dimensions. We will attempt to establish dialogue between Don Quixote and the narrative and philosophical traditions of the West.

0101	Hernan De Pinillos	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0118

SPAN408K **Great Themes of the Hispanic Literatures; Home, Homeland and Be/longings in U.S. Latina/o Texts**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

This course explores the construction of home, homeland, and be/longing in U.S. Latina/o diasporic texts. We will address the question of how Latino migrants and generations born and raised in the United States perceive, desire, and construct "home" in/outside of the homelands. We will study novels, poems, music, art, and films, among other texts, representing the experiences of U.S. Central Americans, Dominicans, Panamanians, Puerto Ricans, South Americans, Cuban Americans, Mexican Americans, Chicanas/os, and others.

0101	Ana Rodriguez	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 2117

SPAN408Y **Great Themes of the Hispanic Literatures; Contemporary Spanish Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409F **Great Themes of the Hispanic Literatures; Literary Myths and Philosophy in the European Tradition**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409L **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409O **Great Themes of the Hispanic Literatures; Images of Spain in Contemporary Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409W **Great Themes of the Hispanic Literatures; Women Writers of Spain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409X **Great Themes of the Hispanic Literatures; The Spanish Mystery Novel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409Y **Great Themes of the Hispanic Literatures; Filmmaking in Spain**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN422 **Cross-Cultural Communication**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

General Education: DVCC

Prerequisite: SPAN315. Restriction: Must be in Spanish Language, Literatures, and Cultures program; and junior standing or higher.

Focuses on the relationship of language and culture of those operating in world markets. Particular attention will be given to cross-cultural communication, linguistic systems, and culture specific perceptions of the Hispanic world.

Contact department for information to register for this course.

SPAN425 **Introduction to Hispanic Linguistics I: Basic Concepts**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

This course begins with an introduction to general concepts in linguistics, from language function and the brain to communication, culture, and thought, and their relation to other disciplines in the social sciences. The main purpose of this course is to provide an overview of Hispanic linguistics through multiple perspectives, while exploring the areas of Spanish morphology, syntax, and semantics. This course will also focus on the structural tendencies of Spanish through a variety of practical activities.

This course provides an introduction to the study of language and communication with emphasis on the understanding of linguistics structures (phonetics, morphology, and syntax) and the use of language in social contexts (semantics and pragmatics) in Spanish-speaking contexts.

0101	Ana Acedo Garcia	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 0205

SPAN427 **Visions and Fictions from Spain**

Credits: 3 Grading Method: Regular

Prerequisite: SPAN331, SPAN332, or SPAN333; or students who have taken courses with comparable content may contact the department; or permission of ARHU-Spanish & Portuguese Languages & Literatures department. Also offered as: FILM427. Credit only granted for: FILM427 or SPAN427.

Overview of Spanish Cinema from the end of the 19th century through present day Spain. Exploration of the production of literary and cinematic texts in their sociohistorical, political, religious and cultural contexts. Taught in Spanish.

This course presents an overview of Spanish Cinema from the end of the XIX Century through present day Spain. The course explores the production of literary and cinematic texts in their sociohistorical, political, religious and cultural contexts and development. This interdisciplinary course covers topics such as political, historical, religious, racial, ethnic, gendered/sexual, cultural, and ethno-graphic.

0101	Jose Naharro-Calderon	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 1122

SPAN449J **Special Topics in Spanish Civilization; Mosaic: Jews, Muslims and the Spanish Experience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449Z **Special Topics in Spanish Civilization; Barcelona/ Madrid: Literature & Film in the Contemporary City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN462 **Twentieth Century Drama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Significant plays of the twentieth century.

Contact department for information to register for this course.

SPAN463 **Latin American Drama**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Emphasis will be placed on Latin American plays of the twentieth century.

Contact department for information to register for this course.

SPAN464 **Contemporary Spanish Poetry**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN469C **Study Abroad Special Topics IV; Composition**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN469D **Study Abroad Special Topics IV; Chilean History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN479 **Honors Thesis**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail, Audit

Researching and writing an honors thesis under the direction of a professor.

Contact department for information to register for this course.

SPAN495 **Honors Reading**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must be in Spanish and Portuguese Honors; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Supervised reading.

Contact department for information to register for this course.

SPAN611 **Current Trends in Hispanic Applied Linguistics**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARHU-Spanish & Portuguese Languages & Literatures department.

Introduction to current trends in Hispanic Applied Linguistics, emphasizing learning and teaching in Spanish-language contexts.

This course examines methodological advances for Spanish as a second language in relation to second language acquisition theories, interculturality and transculturality, multiliteracies and multimodalities, teacher cognition and socialization, classroom dynamics and management, sociopolitical and institutional conditions, and professional development.

0101	Manel Lacorte	Seats (Total: 10)
	W 5:00pm - 7:30pm	JMZ 2123

SPAN699 **Independent Study in Spanish**

Credits: 1-3 Grading Method: Regular, Audit

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Contact department for information to register for this course.

SPAN798A **Open Seminar; How to Do Things with Words? Rethinking a Practice through Contemporary Narratives from the Southern Cone**

Credits: 3 Grading Method: Regular, Audit

How to do things with words? is now a question that does not need much explanation, as it has become a commonplace to think of languages as a practice. In our seminar we will explore in depth this question by focusing on contemporary narratives that reflect on what it means to practice writing. We will read narratives by Saer, Aira, Eltitt, Fogwill, Piglia, Levrero, Lemebel, Bolano, Pauls, Chejfec, Meruane, Zambra, Fernandex, Ro sino, Ratto, Falco.

0101	Laura Demaria	Seats (Total: 10)
	Tu 4:30pm - 7:15pm	JMZ 2122

SPAN798B **Open Seminar; Benito Perez Galdos**

Credits: 3 Grading Method: Regular, Audit

The objective of this seminar is to study the novelistic corpus of the most prolific Spanish writer of the nineteenth century, with a special focus on the problemenatic of gender and sexuality.

0101	Mehl Penrose	Seats (Total: 10)
	M 4:30pm - 7:15pm	JMZ 2215F

SPAN798C **Open Seminar; Passengers in Transit: Territoriality and Memory in Post-Authoritarian Chilean and Argentine Narratives**

Credits: 3 Grading Method: Regular, Audit

This seminar, to be taught jointly with faculty from the Universidad Catolica de Chile and the Universidad Nacional de Cordoba, will address the long-term legacies of the dictatorship in Argentina and Chile and the changes that have taken place since the transition/return to democracy. Nation, identity, exile, memory, the retrieval of shifting territories will be analyzed in prose fiction from the last couple of decades.

0101	Saul Sosnowski	Seats (Total: 10)
	Th 5:30pm - 8:00pm	JMZ 2207

SPAN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPAN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPAN899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SPHL Public Health Fall 2015

SPHL389 **Public Health Science Independent Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

0101	Kristin Cipriani	Seats (Total: 10)
	Contact instructor or department for details.	

SPHL498F **Special Topics in Public Health; Social, Political, and Ethical Issues of Public Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topical and interdisciplinary courses of interest to upper level undergraduate students in the field of Public Health not currently covered by the program.

SG91	Kristin Cipriani	Seats (Total: 10)
	Th 6:00pm - 8:50pm	Location: TBA
	Restricted to Shady Grove Students in the Public Health Science program (12140), or by permission of Program Director.	

SPHL498L **Special Topics in Public Health; Fundamentals of Health Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topical and interdisciplinary courses of interest to upper level undergraduate students in the field of Public Health not currently covered by the program.

SG91	Lynn Cook	Seats (Total: 30)
	Tu 2:00pm - 4:50pm	Location: TBA
	Restricted to Shady Grove Students in the Public Health Science program or by permission of Program Director.	

STAT Statistics and Probability Fall 2015

STAT100 **Elementary Statistics and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: MATH112, MATH110, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: STAT100 or MATH111.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

0111	Susan Mazzullo MW 10:00am - 10:50am MWF 8:00am - 8:50am	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0121	Susan Mazzullo MW 10:00am - 10:50am MWF 9:00am - 9:50am	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0131	Susan Mazzullo MW 10:00am - 10:50am MWF 11:00am - 11:50am	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0141	Susan Mazzullo MW 10:00am - 10:50am MWF 12:00pm - 12:50pm	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0171	Susan Mazzullo MW 10:00am - 10:50am TuTh 8:00am - 9:15am	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0181	Susan Mazzullo MW 10:00am - 10:50am TuTh 9:30am - 10:45am	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0191	Susan Mazzullo MW 10:00am - 10:50am TuTh 11:00am - 12:15pm	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion
0192	Susan Mazzullo MW 10:00am - 10:50am TuTh 12:30pm - 1:45pm	Seats (Total: 27) ARM 0135 ARM 0112	 Discussion

0211	Casey Cremins MW 2:00pm - 2:50pm MWF 10:00am - 10:50am	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0221	Casey Cremins MW 2:00pm - 2:50pm MWF 11:00am - 11:50am	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0231	Casey Cremins MW 2:00pm - 2:50pm MWF 12:00pm - 12:50pm	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0241	Casey Cremins MW 2:00pm - 2:50pm MWF 1:00pm - 1:50pm	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0251	Casey Cremins MW 2:00pm - 2:50pm TuTh 8:00am - 9:15am	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0261	Casey Cremins MW 2:00pm - 2:50pm TuTh 9:30am - 10:45am	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0271	Casey Cremins MW 2:00pm - 2:50pm TuTh 11:00am - 12:15pm	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
0281	Casey Cremins MW 2:00pm - 2:50pm TuTh 12:30pm - 1:45pm	Seats (Total: 29) ARM 0126 ARM 0112	 Discussion
FC01	Lior Hilsenrath Tu 3:00pm - 4:15pm Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0103 CSS 1113	
FC02	Lior Hilsenrath TuTh 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) CHM 1224	

FC03	Lior Hilsenrath TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 33) MTH 0306	

STAT386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS-Mathematics Department.

2801	Abram Kagan Contact instructor or department for details.	Seats (Total: 10)	

STAT400 **Applied Probability and Statistics I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH131; or MATH141; or students who have taken courses with comparable content may contact the department. Credit only granted for: BMGT231, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

0111	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 24) ARM 0126 MTH 0105	Discussion
0112	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 25) ARM 0126 MTH 0411	Discussion
0113	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 8:00am - 8:50am	Seats (Total: 25) ARM 0126 MTH 0305	Discussion
0121	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0126 MTH 0105	Discussion

0122	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0126 MTH 0411	Discussion
0123	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 9:00am - 9:50am	Seats (Total: 25) ARM 0126 MTH 0305	Discussion
0131	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 25) ARM 0126 MTH 0307	Discussion
0132	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 25) ARM 0126 MTH 0401	Discussion
0133	Dmitry Dolgopyat TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 25) ARM 0126 MTH 0305	Discussion
0211	Susan Mazzullo TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0307	Discussion
0212	Susan Mazzullo TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 25) ARM 0126 HBK 0103	Discussion
0213	Susan Mazzullo TuTh 2:00pm - 3:15pm W 11:00am - 11:50am	Seats (Total: 25) ARM 0126 MTH 0401	Discussion
0221	Susan Mazzullo TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 25) ARM 0126 MTH B0421	Discussion
0222	Susan Mazzullo TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 25) ARM 0126 MTH B0427	Discussion

0223	Susan Mazzullo TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 25) ARM 0126 MTH 0101	Discussion
0231	Susan Mazzullo TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 25) ARM 0126 MTH B0421	Discussion
0232	Susan Mazzullo TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 25) ARM 0126 MTH B0425	Discussion
0233	Susan Mazzullo TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 25) ARM 0126 MTH 0101	Discussion
0301	Joan Ren TuTh 11:00am - 12:15pm	Seats (Total: 30) SPH 0308	
0401	Casey Cremins TuTh 2:00pm - 3:15pm	Seats (Total: 100) CHM 1402	

STAT401 **Applied Probability and Statistics II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

0101	Peter Nandori MWF 11:00am - 11:50am	Seats (Total: 28) CHM 0122	
0201	Takumi Saegusa MWF 1:00pm - 1:50pm	Seats (Total: 29) MTH 0306	
0301	Timothy Pilachowski TuTh 9:30am - 10:45am	Seats (Total: 27) MTH 0104	

0401	Guan Huang TuTh 12:30pm - 1:45pm	Seats (Total: 29) MTH 0105

STAT410 **Introduction to Probability Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241. Also offered as: SURV410. Credit only granted for: STAT410 or SURV410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.

0101	Melissa Macasieb TuTh 12:30pm - 1:45pm	Seats (Total: 28) MTH 0101
0201	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 28) MTH 0405
0301	Steven Chadwick TuTh 2:00pm - 3:15pm	Seats (Total: 28) MTH 1311
0401	Christian Zickert TuTh 3:30pm - 4:45pm	Seats (Total: 28) MTH 0302

STAT420 **Introduction to Statistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SURV410 or STAT410. Also offered as: SURV420. Credit only granted for: STAT420 or SURV420.

Point estimation, sufficiency, completeness, Cramer-Rao inequality, maximum likelihood. Confidence intervals for parameters of normal distribution. Hypothesis testing, most powerful tests, likelihood ratio tests. Chi-square tests, analysis of variance, regression, correlation. Nonparametric methods.

0101	Tingni Sun TuTh 2:00pm - 3:15pm	Seats (Total: 25) ANS 0402

STAT430 **Introduction to Statistical Computing with SAS**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in STAT400.

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

0101	Susan Mazzullo MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH 0401
0201	Susan Mazzullo MWF 2:00pm - 2:50pm	Seats (Total: 30) MTH 0405

STAT440 **Sampling Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: STAT401 or STAT420. Credit only granted for: STAT440 or SURV440.

Simple random sampling. Sampling for proportions. Estimation of sample size. Sampling with varying probabilities. Sampling: stratified, systematic, cluster, double, sequential, incomplete.

0101	Natalia Tchetcherina MWF 11:00am - 11:50am	Seats (Total: 22) MTH B0425
0201	Natalia Tchetcherina MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 1313

STAT464 **Introduction to Biostatistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed one semester of calculus. Restriction: Junior standing or higher. Additional information: Not acceptable toward degrees in MATH/STAT.

Probabilistic models. Sampling. Some applications of probability in genetics. Experimental designs. Estimation of effects of treatments. Comparative experiments. Fisher-Irwin test. Wilcoxon tests for paired comparisons.

0101	Raluca Rosca MWF 11:00am - 11:50am	Seats (Total: 26) SPH 0303

STAT470 **Actuarial Mathematics**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241. Recommended: STAT400.

Major mathematical ideas involved in calculation of life insurance premiums, including compound interest and present valuation of future income streams; probability distribution and expected values derived from life tables; the interpolation of probability distributions from values estimated at one-year multiples; the 'Law of Large Numbers' describing the regular probabilistic behavior of large populations of independent individuals; and the detailed calculation of expected present values arising in insurance problems.

0101	Natalia Tchetcherina	Seats (Total: 25)
	MWF 3:00pm - 3:50pm	MTH 0102

STAT498A **Selected Topics in Statistics**

(Perm req)

Credits: 1-6

Grading Method: Regular, Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT600 **Probability Theory I**

Credits: 3

Grading Method: Regular, Audit

Prerequisite: STAT410.

Probability space; distribution functions and densities; Poissson limit theoreom; de Moivre-Laplace theorem; measure-theoretic definition of expectation; classification of measures on R; convergence of random variables; Radon-Nikodym theorem;LP spaces; conditional probabilities; independence of events, sigma-algebras and random variables; Bayes' theo rem; pi-systems and Dynkin systems; discrete Markov chains; random walks; gambler's ruin problem; Markov chains on a general phase space; Borel-cantelli lemmas; Kolmogorov inequality; three series theorem; laws of large numbers.

0101	Leonid Koralov	Seats (Total: 22)
	MWF 1:00pm - 1:50pm	JMP 2202

STAT689 **Research Interactions in Statistics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

STAT700 **Mathematical Statistics I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT410; or students who have taken courses with comparable content may contact the department.

Sampling distributions including noncentral chi-squared, t, F. Exponential families, completeness. Sufficiency, factorization, likelihood ratio. Decision theory, Bayesian methods, minimax principle. Point estimation. Lehmann-Scheffe and Cramer-Rao theorems. Set estimation.

Offered fall only.

0101	Benjamin Kedem	Seats (Total: 24)
	MWF 10:00am - 10:50am	MTH 1313

STAT705 **Computational Statistics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT700 or STAT420. Recommended: Have some programming experience (any language). Credit only granted for: STAT705 or STAT798C. Formerly: STAT798C.

Modern methods of computational statistics and their application to bot practical problems and research. S-Plus and SAS programming with emphasis on S-Plus. S-Plus objects and functions, and SAS procedures. Topics include data management and graphics, Monte Carlo and simulation, bootstrapping, numerical optimization in statistics, linear and generalized linear models, nonparametric regression, time series analysis.

0101	Eric Slud	Seats (Total: 22)
	MW 5:00pm - 6:15pm	MTH 1308

STAT740 **Linear Statistical Models I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: STAT700 or STAT420.

Least squares, general linear models, estimability and Gauss-Markov theorem. Simple and multiple linear regression, analysis of residuals and diagnostics, polynomial models, variable selection. Qualitative predictors, one and two way analysis of variance, multiple comparisons, analysis of covariance. Nonlinear least squares. High-level statistical computer software will be used for data analysis throughout the course.

0101	Paul Smith	Seats (Total: 22)
	MWF 2:00pm - 2:50pm	MTH 0409

STAT799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT808A **Selected Topics in Probability**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818A **Selected Topics in Statistics**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818C **Selected Topics in Statistics; Long-time Infuence of Small Perturbations**

Credits: 3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Mark Freidlin	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	SYM 0215

STAT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV Survey Methodology Fall 2015

SURV400 **Fundamentals of Survey Methodology**

Credits: 3 Grading Method: Regular

Prerequisite: STAT100; or permission of BSOS-Joint Program in Survey Methodology department. Credit only granted for: SURV699M or SURV400. Formerly: SURV699M.

Introduces the student to a set of principles of survey design that are the basis of standard practices in the field. The course exposes the student to both observational and experimental methods to test key hypotheses about the nature of human behavior that affect the quality of survey data. It will also present important statistical concepts and techniques in simple design, execution, and estimation, as well as models of behavior describing errors in responding to survey questions. Not acceptable to graduate degrees in Survey Methodology (SURV).

SVW1	Florian Keusch	Seats (Total: 15)
	Meets August 31, 2015 - November 30, 2015	
	F 12:00pm - 1:00pm Contact instructor or department for details.	ONLINE
	This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.	

SURV410 **Introduction to Probability Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: MATH240 and MATH241; or permission of BSOS-Joint Program in Survey Methodology department. Also offered as: STAT410. Credit only granted for: SURV410 or STAT410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments, characteristic functions, and limit theorems.

Also offered as STAT 410.

0401	Christian Zickert	Seats (Total: 28)
	TuTh 3:30pm - 4:45pm	MTH 0302

SURV615 **Statistical Methods I**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a two course sequence in probability and statistics; or students who have taken courses with comparable content may contact the department.

First course in a two term sequence in applied statistical methods covering topics such as regression, analysis of variance, categorical data, and survival analysis.

It runs concurrently with the University of Michigan course.

0101	Sunghee Lee	Seats (Total: 20)
	Meets September 7, 2015 - December 10, 2015	
	Th 1:00pm - 3:40pm	LEF 1208

SURV623 **Data Collection Methods in Survey Research**

Credits: 3 Grading Method: Regular, Audit

Review of alternative data collection methods used in surveys, concentrating on the impact these techniques have on the quality of survey data, including measurement error properties, levels of nonresponse and coverage error. Reviews of the literature on major mode comparisons (face-to-face interviewing, telephone survey and self-administered questionnaires), and alternative collection methods (diaries, administrative records, direct observation, etc.). The statistical and social science literatures on interviewer effects and nonresponse, and current advances in computer-assisted telephone interviewing (CATI), computer-assisted personal interviewing (CAPI), and other methods such as touchtone data entry (TDE) and voice recognition (VRE).

0101	Mick Couper, Frederick Conrad	Seats (Total: 25)
	Meets September 14, 2015 - December 9, 2015	
	M 3:30pm - 6:30pm	LEF 1208
	Restricted to JPSM students only.	

SVW1	Matthew Jans	Seats (Total: 15)
	Meets August 31, 2015 - November 30, 2015	
	W 7:00pm - 8:00pm Contact instructor or department for details.	ONLINE
	This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. Video-recorded lectures taught by Dr. Frederick Conrad. Live online sessions taught by Dr. Matt Jans.	

SURV625 **Applied Sampling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a course in statistics approved by department.

Practical aspects of sample design. Topics include: probability sampling (including simple random, systematic, stratified, clustered, multistage and two-phase sampling methods), sampling with probabilities proportional to size, area sampling, telephone sampling, ratio estimation, sampling error estimation, frame problems, nonresponse, and cost factors.

This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.

SVW1	Louis Rizzo	Seats (Total: 15)
	Meets September 2, 2015 - November 25, 2015	
	W 2:00pm - 3:00pm Contact instructor or department for details.	ONLINE
	Video-recorded lectures taught by Dr. James Lepkowski. Live online sessions taught by Dr. Louis Rizzo.	

SURV630 **Questionnaire Design and Evaluation**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: SURV430 and SURV630.

The stages of questionnaire design; developmental interviewing, question writing, question evaluation, pretesting, and questionnaire ordering and formatting. Reviews of the literature on questionnaire construction, the experimental literature on question effects, and the psychological literature on information processing. Examination of the diverse challenges posed by self versus proxy reporting and special attention is paid to the relationship between mode of administration and questionnaire design.

0101	Ting Yan Class time/details on ELMs	Seats (Total: 20) ONLINE
SV01	Instructor: TBA F 1:00pm - 3:30pm	Seats (Total: 10) Location: TBA
	Meets at the Census Bureau, T10.Restricted to UNC-Census: Federal Employees only.	

SURV632 **Social and Cognitive Foundations of Survey Measurement**

Credits: 3 Grading Method: Regular, Audit

Major sources of survey error-such as reporting errors and nonresponse bias-from the perspective of social and cognitive psychology and related disciplines. Topics: psychology of memory and its bearing on classical survey issues (e.g., underreporting and telescoping); models of language use and their implications for the interpretation and misinterpretation of survey questions; and studies of attitudes, attitude change, and their possible application to increasing response rates and improving the measurement of opinions. Theories and findings from the social and behavioral sciences will be explored.

0101	Frederick Conrad **Meets September 7, 2015 - December 9, 2015** W 9:00am - 11:45am	Seats (Total: 20) LEF 1208

SURV641 **Survey Practicum II**

Credits: 2 Grading Method: Regular

Prerequisite: SURV620. Restriction: Must be in one of the following programs (Survey Methodology (Doctoral); Survey Methodology (Master's)). Credit only granted for: SURV621 or SURV641. Formerly: SURV621. Additional information: SURV640 and SURV641 must be taken in consecutive semesters.

Second part of applied workshop in sample survey design. Course focus on post data collection process of data processing, editing and anlysis.

0101	David Cantor W 3:30pm - 5:30pm	Seats (Total: 20) LEF 1208

SURV650 **Economic Measurement**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed a course in intermediate microeconomics. Credit only granted for: SURV650 or SURV699L. Formerly: SURV699L.

An introduction to the field of economic measurement. Sound economic data are of critical importance to policymakers, the business community, and others. Emphasis is placed on the economic concepts that underlie key economic statistics and the translation of those concepts into operational measures. Topics addressed include business survey sampling; the creation of business survey sampling frames; the collection of data from businesses; employment and earnings statistics; price statistics; output and productivity measures; the national accounts; and the statistical uses of administrative data. Lectures and course readings assume prior exposure to the tools of economic analysis.

SV01	Katharine Abraham	Seats (Total: 24)
	Tu 9:00am - 11:40am	Location: TBA
	Meets at the Bureau of Labor Statistics in the BLS Conference and Training Center G440. Please check the signs at the entrance for each class location as classrooms will vary.	

SURV672 **Introduction to the Federal Statistical System and the Survey Research Profession**

Credits: 1 Grading Method: Sat-Fail

Credit only granted for: (SURV670 and SURV671) or SURV672. Formerly: SURV670 and SURV671.

The U.S. statistical system and its goals are reviewed. The federal statistical agencies are described, and their primary missions and data collections are examined. The statistical systems of other countries are compared with the U.S. system. Organizational and budgetary aspects are presented. Students will learn about organizations and groups outside of the Federal Statistical System that affect the actions of the System. These include other governmental units, professional associations, and advisory groups created by the agencies themselves. Students will review current laws regarding privacy and confidentiality affecting government agency work and consider a variety of ethical issues confronting government statisticians.

SV01	Brian Harris-Kojetin	Seats (Total: 10)
	Meets September 7, 2015 - December 11, 2015	
	Tu 5:45pm - 6:45pm	Location: TBA
	Meets in room 5040 at the Bureau of Labor Statistics in DC.	

SURV699 **Special Topics in Survey Methodology; Reading in Survey Methodology**

(Perm req)

Credits: 1-3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Frederick Conrad Contact instructor or department for details.	Seats (Total: 10)
0201	Robert Croninger Contact instructor or department for details.	Seats (Total: 10)
0301	James Lepkowski Contact instructor or department for details.	Seats (Total: 10)

SURV699N **Special Topics in Survey Methodology; Statistical Methods for Analysis of Complex Samples in Public Health**

(Perm req)

Credits: 3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

Prerequisite: Mathematical statistics course at the Masters level (e.g., UMD STAT/SURV420, EPIB652, or equivalent) and permission of instructor.

0101	Yan Li, Barry Graubard **Meets September 7, 2015 - December 13, 2015** M 1:00pm - 3:45pm	Seats (Total: 10) LEF 1218

SURV699X **Special Topics in Survey Methodology; Statistical Analysis with Missing Data**

Credits: 3

Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Partha Lahiri **Meets September 14, 2015 - December 13, 2015** M 9:30am - 12:15pm	Seats (Total: 10) LEF 1208

SURV699Y **Special Topics in Survey Methodology; Big Data for Federal Agencies**

(Perm req)

Credits: 6 Grading Method: Regular

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

Meets at Summit LL, 601 New Jersey Ave. NW, Washington, DC. Prerequisite: Permission of the Instructor and familiarity with survey and administrative data; mastery of a statistical software package; completion of an online Python programming class or pre-class bootcamp.

SV01	Frauke Kreuter	Seats (Total: 30)	
	F 9:00am - 12:00pm	Location: TBA	
	W 9:00am - 12:00pm	Location: TBA	Lab
	F 1:00pm - 3:00pm	Location: TBA	Lab

SURV701 **Analysis of Complex Sample Data**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV625.

Analysis of data from complex sample designs covers: the development and handling of selection and other compensatory weights; methods for handling missing data; the effect of stratification and clustering on estimation and inference; alternative variance estimation procedures; methods for incorporating weights, stratification and clustering, and imputed values in estimation and inference procedures for complex sample survey data; and generalized design effects and variance functions. Computer software that takes account of complex sample design in estimation.

It runs concurrently with the University of Michigan course.

0101	Yan Li	Seats (Total: 10)	
	Meets September 7, 2015 - December 9, 2015		
	Th 12:30pm - 3:30pm	LEF 1218	
SV01	Yan Li	Seats (Total: 5)	
	Meets September 7, 2015 - December 9, 2015		
	Th 12:30pm - 3:30pm	Location: TBA	
	Meets at the Census Bureau, T10. Restricted to Census Federal Employees only.		

SURV720 **Total Survey Quality I**

Credits: 2 Grading Method: Regular, Audit

Prerequisite: SURV625. Restriction: Permission of instructor. Credit only granted for: (SURV720 and SURV721) or SURV723. Formerly: SURV723.

Total error structure of sample survey data, reviewing current research findings on the magnitudes of different error sources, design features that affect their magnitudes, and interrelationships among the errors. Coverage, nonresponse, sampling, measurement, and postsurvey processing errors. For each error source reviewed, social science theories about its causes and statistical models estimating the error source are described. Empirical studies from the survey methodological literature are reviewed to illustrate the relative magnitudes of error in different designs. Emphasis on aspects of the survey design necessary to estimate different error sources. Relationships to show how attempts to control one error source may increase another source. Attempts to model total survey error will be presented.

It runs concurrently with the University of Michigan course.

0101	Andrey Peytchev	Seats (Total: 20)
	Meets September 7, 2015 - December 9, 2015	
	Tu 3:40pm - 5:20pm	LEF 2208

SURV722 **Randomized/Nonrandomized Design**

Credits: 3 Grading Method: Regular, Audit

Research designs from which causal inferences are sought. Classical experimental design will be contrasted with quasi-experiments, evaluation studies, and other observational study designs. Emphasis placed on how design features impact the nature of statistical estimation and inference from the designs. Issues of blocking, balancing, repeated measures, control strategies, etc.

Click Here More Information

0101	Sunghee Lee	Seats (Total: 20)
	Meets September 7, 2015 - December 11, 2015	
	F 11:00am - 1:45pm	LEF 1208

SURV745 **Practical Tools for Sampling and Weighting**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV615, SURV616, and SURV625; or permission of instructor. Credit only granted for: SURV745 or SURV699E. Formerly: SURV699E.

A statistical methods class appropriate for second year Master's students and PhD students. The course will be a combination of hands-on applications and general review of the theory behinddifferent approaches to sampling and weighting. Topics covered include sample size calculations using estimation targets based on relative standard error, margin of error, and power requirements. Use of mathematical programming to determine sample sizes needed to achieve estimation goals for a series of subgroups and analysis variables. Resources for designing area probability samples. Methods of sample allocation for multistage samples. Steps in weighting, including computation of base weights, non response adjustments, and uses of auxiliary data. Non response adjustment alternatives, including weighting cell adjustments, formation of cells using regression trees, and propensity score adjustments. Weighting via post stratification, raking, general regression estimation, and other types of calibration.

0101	Richard Valliant **Meets September 3, 2015 - December 13, 2015** Th 3:30pm - 6:30pm	Seats (Total: 20) LEF 2208
SVW1	Richard Valliant **Meets September 1, 2015 - November 30, 2015** Th 2:00pm - 3:00pm Contact instructor or department for details. *This online section is a condensed version of the on-site section. The material covered and workload are compariable. Access to a standalone web camera and a headset are mandatory in order to participate.*	Seats (Total: 15) ONLINE

SURV746 **SURV 746 Advanced Statistical Modeling**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: SURV615 and SURV616; or permission of instructor. Credit only granted for: SURV746 or SURV699R. Formerly: SURV699R.

Designed for students on both the social science and statistical tracks for the two programs in survey methodology, will provide students with exposure to applications of more advanced statistical modeling tools for both substantive and methodological investigations that are not fully covered in other MPSM or JPSM courses. Modeling techniques to be covered include multilevel modeling (with an application to methodological studies of interviewer effects), structural equation modeling (with an application of latent class models to methodological studies of measurement error), classification trees (with an application to prediction of response propensity), and alternative models for longitudinal data (with an application to panel survey data from the Health and Retirement Study). Discussions and examples of each modeling technique will be supplemented with methods for appropriately handling complex sample designs when fitting the models. The class will focus on practical applications and software rather than extensive theoretical discussions.

0101	Brady West	Seats (Total: 20)
	Meets September 7, 2015 - December 13, 2015	
	F 2:00pm - 4:45pm	LEF 1208

SURV798Z **Advanced Topics in Survey Methodology; Bayesian Methods**

Credits: 3 Grading Method: Regular, Audit

Individual instruction.

0101	Partha Lahiri	Seats (Total: 10)
	Meets September 7, 2015 - December 13, 2015	
	Tu 1:00pm - 3:45pm	LEF 1208

SURV829 **Doctoral Research Seminar in Survey Methodology**

Credits: 3-6 Grading Method: Regular

An advanced research seminar for students preparing to do research or take doctoral comprehensive examinations.

0101	Frauke Kreuter	Seats (Total: 5)
	Meets September 7, 2015 - December 9, 2015	
	Th 9:00am - 11:30am	LEF 1218

SURV898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

TDPS Theatre, Dance and Performance Studies Fall 2015

TDPS201 **Introduction to Technical Production**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within ARHU-Dance department; or must be in a major within ARHU-Theatre department. Credit only granted for: DANC210 and THET114 or TDPS201. Formerly: DANC210 and THET114.

Students are provided with an overview of topics related to the technical production of theatre and dance including: scenic, prop and costume construction, lighting, sound and video execution and management structures.

Students must pay a $25.00 lab fee.

0101	Cate Barger	Seats (Total: 25)	
	MW 4:00pm - 4:50pm	PAC 1815	
	F 3:30pm - 5:30pm	PAC 1702	Lab

TDPS358A **Special Topics in Intermediate Performing Arts; Arts Management and Entrepreneurship**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at the intermediate level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

0101	Curtis Stedge	Seats (Total: 20)
	MW 11:00am - 12:15pm	PAC 1809

TDPS358I **Special Topics in Intermediate Performing Arts; Building Identity Through Theatre and Dance**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at the intermediate level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students mut pay a $25 lab fee.

0101	Christopher Morgan	Seats (Total: 15)
	MW 1:00pm - 2:50pm	PAC 3736

TDPS458B **Special Topics in Advanced Performing Arts; Exploring Personal and Community Identity through Performance**

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

The course will engage foundational performance techniques, to create an environment of safety followed with interactive dialogues, conversations and self reflection. The course will have guests who will share their experiences and perspectives throughout the semester. Interested participants in the course will be invited to participate in the production process of Baltimore during the spring semester. Non theatre majors are welcome. For further information please contact Leslie Felbain at lfelbain@umd.edu.

0101	Leslie Felbain	Seats (Total: 25)
	TuTh 3:30pm - 5:00pm	PAC 3736

TDPS458P **Special Topics in Advanced Performing Arts; Performance Coaching**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students must pay a $25 lab fee. This course explores various aspects of performing skills by utilizing solo and group repertory assignments, of dance and/or theatrical genres. Clarity of intent/content will be examined through discussion, practice,observation and feedback in the development of articulate and honest communication in one's performance. The class will include students' participation in multiple performing events.

0101	Adriane Fang	Seats (Total: 12)
	MW 3:30pm - 4:45pm	PAC 1610

TDPS469 **Advanced Practicum in Stage Management**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

A graded course in stage management for theatre and/or dance productions. A hands-on laboratory experience.

0101	Cary Gillett	Seats (Total: 8)
	Contact instructor or department for details.	

TDPS479 **Production Practicum**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

A graded course in a specified practical aspect of mounting a theatre o dance production. It is a hands-on, purely laboratory experience.

1001	Cate Barger Contact instructor or department for details.	Seats (Total: 25)
1002	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
1003	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
1004	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
1005	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
1006	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
1007	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
2001	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
2002	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
2003	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
2004	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
2005	Cate Barger Contact instructor or department for details.	Seats (Total: 15)
2006	Cate Barger Contact instructor or department for details.	Seats (Total: 15)

THET Theatre Fall 2015

THET110 Introduction to the Theatre

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Introduction to the people of the theatre: actors, directors, designers and backstage personnel. The core and characteristics of a play script; theatrical forms and styles; and theatre history.

0101	Korey Rothman MW 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 28) TYD 0130 TYD 1114	Discussion
0102	Korey Rothman MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 28) TYD 0130 SQH 1107	Discussion
0103	Korey Rothman MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 27) TYD 0130 PLS 1111	Discussion
0104	Korey Rothman MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 27) TYD 0130 JMZ 0125	Discussion
0105	Korey Rothman MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 27) TYD 0130 HBK 0108	Discussion
0106	Korey Rothman MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 27) TYD 0130 PLS 1111	Discussion
0107	Korey Rothman MW 12:00pm - 12:50pm W 3:00pm - 3:50pm	Seats (Total: 31) TYD 0130 EDU 1121	Discussion
0108	Korey Rothman MW 12:00pm - 12:50pm W 3:00pm - 3:50pm	Seats (Total: 31) TYD 0130 PLS 1111	Discussion

THET116 Fundamentals of Theatrical Design

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Freshman standing; and must be in Theatre program; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Examines theatre as an environmental art that is realized through collaboration between set, costume, and lighting designers.

Students must pay a $25.00 lab fee.

0101	April Vester, Tyler Gunther TuTh 3:30pm - 5:20pm	Seats (Total: 20) PAC 2733	

THET222 **Foundations of Acting and Performance**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department; and must have less than 60 credits. Credit only granted for: THET220 or THET222. Formerly: THET220.

Introduction to various acting techniques, especially Dallas- and Spolin-based improvisation and affective memory; an exploration of the nature of the planned performance and the collaborative creative process. Class will culminate with showcase performance experiences.

Students must pay a $25.00 lab fee.

0101	Jennifer Barclay Newsham TuTh 9:00am - 10:50am	Seats (Total: 16) PAC 3730	Lab
0201	Scot Reese TuTh 2:00pm - 3:50pm	Seats (Total: 16) PAC 3730	Lab

THET223 **Text and Context in Western Theatre**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department; and must have less than 60 credits. Credit only granted for: (THET223 and THET113) or (THET223 and THET115). Formerly: THET113 and THET115.

Explores social, political, and cultural development of Western theatre from classical period to twenty-first century. Part of the Foundation series for Theatre majors. Prepares students for upper-level courses in global theatre.

0101	Laronika Thomas TuTh 12:30pm - 1:45pm	Seats (Total: 25) PAC 1815
0102	Brittany Ginder MW 10:00am - 11:15am	Seats (Total: 25) PAC 1815

THET269B **Special Topics in Study Abroad II; The Meaning of Style**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET269T **Special Topics in Study Abroad II; 20th Century and Contemporary Spanish Theatre**

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET274 **Introduction to Stage Management**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Familiarization with the techniques and skills required of a Stage Manager in a theatrical production, including organization, production meetings, rehearsals, tech and running a show. The outcome at the conclusion of the course is the ability to function as an Assistant Stage Manager in a supervised situation.

Students must pay a $25.00 lab fee.

0101	Cary Gillett MW 3:00pm - 4:30pm	Seats (Total: 15) PAC 1924

THET284 **Stage Costume Construction I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Study and practical experience in garment construction and related costume crafts as used in theatre costume design. Flat pattern development, corset construction, theatrical sewing techniques and organization of the costume construction process.

Students must pay a $25.00 lab fee.

0101	Susan Chiang MW 9:00am - 11:50am	Seats (Total: 12) PAC 3749	Lab

THET285 **The Art of Communication and Presentation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

0101	Daniel Dilliplane MW 10:00am - 11:50am	Seats (Total: 25) PAC 3736
0102	Jeffrey Kaplan TuTh 2:00pm - 3:50pm	Seats (Total: 25) PAC 2740
FC01	Mary Coy MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) HBK 0123
FC02	Mary Coy MW 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) WDS 0104
FC03	Sara Thompson TuTh 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 2120
FC04	Sara Thompson TuTh 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) JMZ 2120

THET286 **Experiential Learning I**

(Perm req) Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introductory internship in theatre. Constructed to help students in their sophomore year gain practical experience in a supportive work environment in the theatre. Student must research and propose internship to a Faculty Advisor and Internship Venue.

0101	Susan Miller Contact instructor or department for details.	Seats (Total: 5)
0210	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	Instructor: TBA Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1501	Daniel Wagner Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)

1701	Helen Huang Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Meer Contact instructor or department for details.	Seats (Total: 5)
2007	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

THET290 **Race, Gender, and Ethnicity in American Theatre and Culture, 1750-1900**

Credits: 3 Grading Method: Regular CORE: HA General Education: DSHU

Since the first colonial encounter with the indigenous peoples of the Americas, complex issues of race, gender, and ethnic identity have shaped our collective efforts to engage, interact, and survive as a new nation. Our cities, our monuments, our homes, are all built on the bodies of the dead and our landscapes are haunted by those who left work unfinished the work of women's rights, religious freedom, racial tolerance, and many other compelling concerns of class, gender, and ethnic identity. This class explores how theatre engaged with these complex issues; it covers the period 1750-1900.

0101	Esther Lee TuTh 11:00am - 11:50am Th 12:00pm - 12:50pm	Seats (Total: 25) ARC 1103 EDU 2102	 Discussion
0102	Esther Lee TuTh 11:00am - 11:50am Th 1:00pm - 1:50pm	Seats (Total: 25) ARC 1103 JMZ 0208	 Discussion

THET293 **Black Theatre and Performance I**

Credits: 3 Grading Method: Regular CORE: HA, D General Education: DSHU, DSSP, DVUP

Restriction: Sophomore standing or higher.

Thematic and historical survey of African-American drama from the late nineteenth century to the 1960s. Emphasis on sociopolitical context, thematic thrust, issues, styles, the aesthetic reflected in the work, impact on African-American and general theatre audiences.

0101	Khalid Long	Seats (Total: 20)	
	W 11:00am - 1:30pm	JUL 1105	

THET310 **Voice for the Actor I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET116, THET222, THET223, and TDPS201; and must Interview; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.

Freeing the natural voice. In-depth experience of connection of actor's voice to thought, impulse and emotion. Tools for releasing tension, increasing resonance and range, and refining articulation will be explored.

Students must pay a $25.00 lab fee.

0101	Leigh Smiley	Seats (Total: 16)	
	MW 9:00am - 10:50am	PAC 3730	Lab

THET324 **Character Development**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in THET310 and THET362; or permission of Instructor. And must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Junior standing or higher.

European-based physical approach to acting. Primary focus on character development, may include creating original characters and learning how to bring to life an already scripted character. Techniques to explore the soul and psychology of characters and their physical qualities, voice, rhythm and movement.

Students must pay a $25.00 lab fee.

0101	Leslie Felbain	Seats (Total: 12)	
	TuTh 1:30pm - 3:20pm	PAC 3736	Lab

THET328L **Special Topics in Intermediate Theatre and Performance; Advanced Techniques in Lighting Design**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

0101	Robert Siler	Seats (Total: 6)
	Contact instructor or department for details.	

THET330 **Play Directing I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Junior standing or higher.

A lecture-laboratory course dealing with the techniques of coordinating designing and guiding the production of a script through to performance. Study and practice in stage composition, movement, pacing, script and character analysis, and rehearsal routines. Emphasis on methods of communicating a script to an audience.

Students must pay a $25.00 lab fee.

0101	Scot Reese	Seats (Total: 10)
	TuTh 10:00am - 11:50am	PAC 2740

THET340 **Playwriting I**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, THET116, and TDPS201. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET340 or THET399P. Formerly: THET399P.

Will introduce students to the art of playwriting through exploratory writing exercises, the reading of successful plays, the development of new short scripts, how to make theatrical choices, and how to use the six elements of storytelling.

Students must pay a $25.00 lab fee.

0101	Jennifer Barclay Newsham	Seats (Total: 12)
	MW 9:00am - 10:50am	PAC 1809

THET362 **Alexander Technique**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET116, THET223, and TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Recommended: Concurrently enroll in any THET 300-level Performance course. Credit only granted for: THET399J or THET362. Formerly: THET399J.

Based on the F.M. Alexander Technique, students will learn to recognize habit patterns that interfere with how they function and express themselves so that they can make conscious choices as a performing artist.

Students must pay a $25.00 lab fee.

0101	Leslie Felbain	Seats (Total: 20)	
	TuTh 9:30am - 11:20am	PAC 3736	

THET363 **The Business of the Business**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET116, THET222, THET223, and TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET399B or THET499E or THET363. Formerly: THET399B, THET499E.

An in depth study of the business of working in the theatre. Explores early career opportunities and entry-level positions in the entertainment industry. Analyzes publicity, management, union, casting, and agency practices; how they apply to you and your career in the non-profit and commercial theatre.

0101	Mitchell Hebert	Seats (Total: 18)	
	F 9:00am - 11:50am	PAC 1809	Lab

THET369L **Special Topics in Study Abroad III; 20th Century and Contemporary Latin American Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET371 **Scenic Design I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116; and (THET114; or TDPS201). Or permission of ARHU-School of Theatre, Dance & Performance Studies department.

A study of design theory and style. Methods and techniques of coordination of all elements of scenic design for theatre.

Students must pay a $25.00 lab fee.

0101	April Vester	Seats (Total: 8)	
	MW 1:00pm - 2:50pm	PAC 2733	

THET372 **Stage Property Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114; or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Materials and techniques for the design and execution of stage properties with special emphasis on period research, special materials, and special effects.

Students must pay a $25.00 lab fee.

0101	Timothy Jones	Seats (Total: 12)	
	Th 6:00pm - 8:50pm	PAC 1815	

THET373 **Rendering for the Theatre I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

A study in the techniques and tools of drawing and painting. It is designed for the student to develop rendering and drawing skills for theatrical design presentation.

Students must pay a $25.00 lab fee.

0101	Helen Huang	Seats (Total: 8)	
	MW 10:00am - 11:50am	PAC 2755	Lab

THET380 **Sound Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET116. And THET114; or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.

Theatre Sound Design is a first course in designing sound for stage productions.

0101	Paul Jackson	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	PAC 2727

THET386 **Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Contact department for information to register for this course.

THET399 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399D **Independent Study; Media Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Permission from ARHU-School of Theatre, Dance & Performance Studies department required. Students must pay a $25.00 lab fee.

0101	Jared Mezzocchi	Seats (Total: 8)	
	TuTh 10:30am - 12:15pm	PAC 2727	Lab

THET399H **Independent Study; London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399W **Independent Study; The London Stage**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399X **Independent Study; The London Stage**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET408W **Seminar: Theory and Performance Studies; Performativity of Law and Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Studies in theatre theory and performance studies from classical antiquity to the present.

Also offered as ANTH468W. Credit granted for THET408W or ANTH468W. Law is theatre, sport, and business. True stories are creatively told to select audiences and stakes are high. This class will explore the performances and performative power of courtroom trials and testimony, as well as offstage legal culture. We will examine notions of truth, evidence, reason, and justice, and will analyze examples from both the everyday and the sensational.

0101	Laurie Frederik Meer	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PAC 1809

THET425 **Actor's Process II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET325; and must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

A deeper exploration of the work begun in THET325. A continuation of creating a personal process through which the actor can confidently approach any genre of play. Special focus on status and subtext and the world of the playwright.

Students must pay a $25.00 lab fee.

0101	Mitchell Hebert	Seats (Total: 12)	
	M 2:00pm - 4:50pm	PAC 3730	Lab

THET428L **Special Topics in Advanced Theatre and Performance; Advanced Techniques in Lighting Design**

(Perm req)

Credits: 1-3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Please email Max Doolittle for permission to take this class at mmd@umd.edu. Students must pay a $25 lab fee.

0101	Max Doolittle	Seats (Total: 8)
	Tu 3:30pm - 6:30pm	PAC 3731

THET428P **Special Topics in Advanced Theatre and Performance; Puppetry**

(Perm req)

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

A general overview of the medium and the many different forms it has taken historically and geographically. Primarily focusing on contemporary practices and more innovative applications and definitions of puppetry. There will also be sections on movement/choreography, fabrication and materials adn teh development of narrative and storytelling.

0101	Robin Frohardt	Seats (Total: 14)
	M 11:00am - 1:50pm	PAC 3730
	Prerequesites: THET222, THET222, THET116, and TDPS201	

THET428W **Special Topics in Advanced Theatre and Performance; African-American Women Filmmakers**

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Also offered as WMST496 and AASP498F. Credit granted for WMST496, AASP498F, or THET428W. Examines the cinematic artistry of African-American women filmmakers and the ways in which these films address the dual and inseparable roles of race and gender.

0101	Lamonda Horton-Stallings	Seats (Total: 20)
	Tu 5:30pm - 8:00pm	HBK 0302J

THET429 **Actor's Studio**

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Participation in dramatic roles executed under faculty supervision in the department's productions. Eligible students must make commitments and plan performances with course instructor during pre-registration.

Contact department for information to register for this course.

THET477 **Design Studio in Lighting**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET377; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Also offered as: THET659. Credit only granted for: THET477 or THET659.

Designed for students who have successfully completed THET377 and wish to further develop their lighting design skills. Emphasis is on theoretical design of productions and realized light lab projects. Particular design projects will vary.

Students must pay a $25.00 lab fee.

0101	Andrew Cissna	Seats (Total: 6)	
	MW 3:00pm - 4:50pm	PAC 2755	Lab

THET481 **Theatre Graphics II: Computer Assisted Design**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; and THET116; and permission of ARHU-Theatre department. Restriction: Sophomore standing or higher.

Study and practical application of computer generated graphical design for use in theatrical production.

Students must pay a $25.00 lab fee.

0101	Paige Hathaway	Seats (Total: 8)	
	MW 1:00pm - 2:50pm	PAC 2727	Lab

THET488A **Special Topics in Theatre History Before 1800; Theatre Architecture from the Minoans to the Baroque**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the history of world theatre and performance from the Greeks through 1800.

Also offered THET698A.

0101	Franklin Hildy	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	PAC 1815

THET489J **Special Topics in Theatre History from 1800 to Present; Theatre and Performance in the 1960s**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the history of world theatre and performance from 1800 to present.

0101	James Harding	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PAC 1815

THET489M **Special Topics in Theatre History from 1800 to Present; African American Theatre**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics in the history of world theatre and performance from 1800 to present.

0101	Faedra Carpenter	Seats (Total: 5)
	Tu 1:30pm - 4:30pm	PAC 1924

THET499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

0201	Franklin Hildy Contact instructor or department for details.	Seats (Total: 5)
0301	Leigh Smiley Contact instructor or department for details.	Seats (Total: 5)
0401	Scot Reese Contact instructor or department for details.	Seats (Total: 5)
0501	Esther Lee Contact instructor or department for details.	Seats (Total: 5)
0601	James Harding Contact instructor or department for details.	Seats (Total: 5)
0701	Jennifer Barclay Newsham Contact instructor or department for details.	Seats (Total: 5)
0801	Leslie Felbain Contact instructor or department for details.	Seats (Total: 5)
0901	Mitchell Hebert Contact instructor or department for details.	Seats (Total: 5)
1001	Instructor: TBA	Seats (Total: 5)
1101	Mikhail Kachman Contact instructor or department for details.	Seats (Total: 5)
1301	Brian MacDevitt Contact instructor or department for details.	Seats (Total: 5)
1401	Andrew Cissna Contact instructor or department for details.	Seats (Total: 5)
1501	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
1601	Daniel Conway Contact instructor or department for details.	Seats (Total: 5)

1701	Helen Huang Contact instructor or department for details.	Seats (Total: 5)
1801	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
2001	Faedra Carpenter Contact instructor or department for details.	Seats (Total: 5)
2003	Cary Gillett Contact instructor or department for details.	Seats (Total: 5)
2005	Laurie Frederik Meer Contact instructor or department for details.	Seats (Total: 5)
2007	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)
2009	Raye Leith Contact instructor or department for details.	Seats (Total: 5)

THET499B **Independent Study; FIGURE DRAWING**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Raye Leith F 9:00am - 11:50am	Seats (Total: 10) PAC 3736

THET600 **Introduction to Graduate Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Also offered as: THET700. Credit only granted for: THET600 or THET700.

A research and bibliography course with special emphasis on research in theatre. Required of all M.A. and M.F.A. students.

0101	Franklin Hildy M 4:00pm - 6:35pm	Seats (Total: 12) PAC 2515C	

THET606 **Teaching Theatre**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

Strategies and materials for teaching a typical introductory course in theatre, with emphasis on specific problems of classroom instruction (e.g., creating a supportive climate, promoting active learning by students, constructing appropriate tests, adapting methods to content, and resolving discipline problems).

0101	Faedra Carpenter Tu 10:00am - 10:50am	Seats (Total: 10) PAC 1809	

THET639 **Advanced Design Studio in Scenery**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25.00 lab fee.

0101	Daniel Conway TuTh 9:00am - 10:50am	Seats (Total: 8) PAC 2755	
0102	Daniel Conway MW 9:00am - 10:50am	Seats (Total: 8) PAC 2727	

THET649 **Advanced Design Studio in Costume**

Credits: 3 Grading Method: Regular, Audit

A series of carefully and individually structured assignments and projects that allows students to progress in their design training.

Students must pay a $25.00 lab fee.

0101	Helen Huang MW 1:00pm - 2:50pm	Seats (Total: 8) PAC 2755	Lab

THET659 **Advanced Design Studio in Lighting**

Credits: 3 Grading Method: Regular, Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a $25.00 lab fee.

0101	Andrew Cissna	Seats (Total: 6)	
	F 3:00pm - 6:00pm	PAC 2755	

THET669 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

THET669D **Independent Study; Advanced Media Design**

Credits: 1-3 Grading Method: Regular, Audit

0101	Jared Mezzocchi	Seats (Total: 8)	
	F 9:00am - 12:00pm	PAC 2727	Lab

THET669F **Independent Study; Figure Drawing**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

0101	Raye Leith	Seats (Total: 10)	
	F 9:00am - 11:50am	PAC 3736	

THET698A **Seminar: Theatre History; Theatre Architecture from the Minoans to the Baroque**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Studies in theatre history from classical antiquity to the present.

Also offered as THET488A.

0101	Franklin Hildy TuTh 11:00am - 12:15pm	Seats (Total: 30) PAC 1815

THET698D **Seminar: Theatre History; 18th and 19th Century Theatre History**

Credits: 3 Grading Method: Regular, Audit

Studies in theatre history from classical antiquity to the present.

0101	Esther Lee Th 1:30pm - 4:00pm	Seats (Total: 10) PAC 1809

THET698F **Seminar: Theatre History; African American Theatre**

Credits: 3 Grading Method: Regular, Audit

Studies in theatre history from classical antiquity to the present.

0101	Faedra Carpenter Tu 1:30pm - 4:30pm	Seats (Total: 5) PAC 1924

THET700 **Introduction to Doctoral Studies in Theatre**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must be admitted to the Ph.D. program in Theatre. Also offered as: THET600. Credit only granted for: THET600 or THET700.

Basic skills in theatre research.

0101	Franklin Hildy M 4:00pm - 6:35pm	Seats (Total: 12) PAC 2515C

THET711 **Critical Theory: Methods and Concepts**

Credits: 3 Grading Method: Regular

Prerequisite: THET700. Recommended: THET712.

A doctoral methods course. Major developments in modern and postmodern critical theory with particular emphasis on application to the fields of Theatre and Performance Studies.

0101	James Harding	Seats (Total: 10)
	W 4:00pm - 6:30pm	PAC 1809

THET788 **Master's Tutorial**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Collaboration with a faculty member on joint creative and artistic projects.

Contact department for information to register for this course.

THET789 **Master's Practicum**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Participation in creative and artistic activities with professional level theatrical organizations.

Contact department for information to register for this course.

THET799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

THET888 **Doctoral Practicum in Theatre**

(Perm req)

Credits: 3-9 Grading Method: Regular

Critical analysis of a phase of a professional field of theatre. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

THET889 **Doctoral Tutorial in Theatre**

(Perm req)

Credits: 3-8 Grading Method: Regular

Individual research in theatre.

Contact department for information to register for this course.

THET898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

THET899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Audit

Contact department for information to register for this course.

TLPL Teaching and Learning, Policy and Leadership — Fall 2015

TLPL101 **Inquiry Teaching of STEM in Elementary School**

Credits: 1 Grading Method: Regular

Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three-hour block of time during the local elementary school operational hours from 7:45 am to 3:15 pm. A background check is required.

Exploration of teaching science or mathematics as a career. Discussions include standards-based lesson design and various teaching strategies. Fieldwork consists of observing, planning and teaching inquiry-based lessons to students in grades three to six in local elementary schools.

0101	Catherine VanNetta M 4:00pm - 5:20pm	Seats (Total: 20) PHY 1108
0201	Sarah Henson-Darko M 2:30pm - 3:50pm	Seats (Total: 20) PHY 1108
0301	Catherine VanNetta Th 4:00pm - 5:20pm	Seats (Total: 20) PHY 1108

TLPL102 **Inquiry Teaching of STEM in Middle School**

Credits: 2 Grading Method: Regular

Prerequisite: Must have completed TLPL101. Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three hour block of time during the local middle school operational hours from 7:45 am to 3:15 pm. A background check is required.

Second course in the Terrapin Teachers teacher preparation sequence. Students gain field experience and continue exploring teaching as a career by planning and implementing two lessons in local, high-need middle school classrooms. Students work closely with UM master teachers to build upon the inquiry-based teaching practices developed in TLPL 101. Students work with mathematics and science curricula while attending to state and district standards, in order to develop and enact lessons that are responsive to students' reasoning in math and science.

0101	Anita Sanyal	Seats (Total: 20)
	W 4:00pm - 5:50pm	PHY 1108

TOXI Toxicology Fall 2015

TOXI609 **Methods in Toxicology**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Provides the opportunity for graduate students to become familiar with laboratory methods used by the staff to study the effect of toxins and environmental pollutants on living systems. Permission and credit arranged individually.

0101	Judd Nelson	Seats (Total: 5)
	Contact instructor or department for details.	

UMEI Maryland English Institute Fall 2015

International students on F1 visas must maintain a full-time status. Full-time status for undergraduate students will be based on registration for 12 or more semester hours, for graduate students, it is a combination of courses equivalent to 48 units per semester. Registration in UMEI001-004 is equivalent to full-time study. Those enrolled in these courses are not permitted to enroll in any other course work. For further information on what constitutes full-time status, please see: http://www.testudo.umd.edu/soc/fulltime.html. UMEI courses do not carry credit toward any degree at the University and do not count in the retention plan. Additional fees are required for these courses. For more information, see the financial section in the Registration Guide.

UMEI001 **English as a Foreign Language: Beginning**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has little or no previous knowledge of English. Focus on the rapid acquisition of the basic features of English grammar and pronunciation and on speaking and understanding American English; reading and writing appropriate to the level will be included. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Raymond Smith	Seats (Total: 20)
	Meets August 27, 2015 - December 9, 2015	
	MWF 9:00am - 11:50am	SQH 1117
	TuTh 9:00am - 11:50am	BPS 1234
	MWF 1:00pm - 2:50pm	KNI 1105
	TuTh 1:00pm - 2:50pm	CHE 2145

UMEI002 **English as a Foreign Language: Intermediate I**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has had some previous instruction in English. Emphasis on improving listening and speaking skills, on mastering intermediate grammatical structures, and on expanding vocabulary. Includes practice in reading and writing appropriate to the level. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Raymond Smith	Seats (Total: 20)
	Meets August 27, 2015 - December 9, 2015	
	MTuWThF 9:00am - 11:50am	COL 3110
	MTuWThF 1:00pm - 2:50pm	COL 3110

UMEI003 **English as a Foreign Language: Intermediate II**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has mastered the essential structures of English grammar. Emphasis on improving communicative skills for a wide range of linguistic situations, on rapid expansion of vocabulary, and on improving reading comprehension and basic writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Heather Mehrtens	Seats (Total: 20)
	Meets August 27, 2015 - December 9, 2015	
	MTuWThF 9:00am - 11:50am	COL 0102
	MTuWThF 1:00pm - 2:50pm	SQH 2120

UMEI004 **English as a Foreign Language: Intermediate III**

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has a good command of the basic features of spoken and written English. Emphasis on refining speaking and listening skills, on improving reading speed and comprehension of academic texts, and on developing writing skills for academic courses. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Daniela Wagner-Loera **Meets August 27, 2015 - December 9, 2015** MTuWThF 9:00am - 11:50am MTuWThF 1:00pm - 2:50pm	Seats (Total: 20) COL 0100 MTH 2300
0301	Annelies Galletta **Meets August 27, 2015 - December 9, 2015** MTuWThF 9:00am - 11:50am MTuWThF 1:00pm - 2:50pm	Seats (Total: 20) COL 3109 COL 3109

UMEI005 **Advanced English as a Foreign Language**

Credits: 6 Grading Method: Sat-Fail

Semi-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension; and development of writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Charles Duquette MTuWThF 9:00am - 10:50am *This section is restricted to Graduate Students.*	Seats (Total: 18) ANS 0402
0201	Instructor: TBA MWF 1:00pm - 2:50pm TuTh 1:00pm - 2:50pm	Seats (Total: 18) KEY 0125 KEY 0125
0301	Marilena Draganescu MWF 9:00am - 10:50am TuTh 9:00am - 10:50am	Seats (Total: 18) EGR 0108 SYM 0215

0401	Eric Walker MWF 3:30pm - 5:20pm TuTh 3:30pm - 5:20pm	Seats (Total: 17) CHE 2145 JMZ 1215

UMEI006 **English Pronunciation**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Restriction: Must have graduate standing; and permission of EDUC-Dean-Maryland English Institute department.

Individualized class for the non-native speaker of English. Diagnosis of individual pronunciation problems. Practice in the correct pronunciation of English sounds and improvement of ability to speak English with proper stress and intonation patterns. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Marilena Draganescu MW 12:00pm - 1:30pm	Seats (Total: 16) HBK 0103
0201	Eric Walker TuTh 9:00am - 10:30am	Seats (Total: 16) JMZ 1226

UMEI007 **Advanced Writing for International Students**

Credits: 3 Grading Method: Sat-Fail

Restriction: Must have graduate standing.

A writing skills course for the non-native speaker of English with a good command of spoken English. This course does not carry credit towards any degree at the University and does not count in the retention plan.

Restriction: Must have graduate standing.

0101	William Pittman MW 9:00am - 10:50am	Seats (Total: 16) WDS 1130
0201	Susan Gould MW 6:00pm - 7:50pm	Seats (Total: 16) WDS 1127
0301	Nasreen Abbas TuTh 1:00pm - 2:50pm	Seats (Total: 16) JMZ 1226

0401	Nasreen Abbas MW 3:00pm - 4:50pm	Seats (Total: 16) KNI 1105
0501	Instructor: TBA TuTh 9:00am - 10:50am	Seats (Total: 16) VMH 1314
0601	Susan Gould TuTh 7:00pm - 8:50pm	Seats (Total: 16) KNI 1105

UMEI008 **Advanced Oral Communication Skills**

(Perm req)

Credits: 2 Grading Method: Sat-Fail

For advanced non-native speakers of English. Practice in speaking skills relevant to the academic situation. Improvement of speaking skills for various classroom activities such as participating in discussions, making appointments with professors, asking for information and presenting oral reports. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

Restriction: Must have graduate standing; and permission of EDUC-Dean-Maryland English Institute department.

0101	Susan Gould TuTh 3:30pm - 5:30pm	Seats (Total: 20) ARC 1121

UNIV University Courses Fall 2015

UNIV099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

0101	Theresa Hale, Erica Ely Contact instructor or department for details.	Seats (Total: 90)

UNIV100 **The Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0010	Allison LaFave Th 2:00pm - 3:40pm *Course enrollment is limited to first-generation college students (i.e. students whose parents/guardians have not earned a four-year college degree). Please direct any questions to nsp@umd.edu.*	Seats (Total: 20) ARC 1123
0201	Brandon Clark M 10:00am - 11:50am *BSOS majors only.*	Seats (Total: 20) TLF 1101
0203	TC Lloyd Th 3:00pm - 4:50pm *BSOS majors only.*	Seats (Total: 20) PLS 1115
0204	Christie Cradock, Lindsey Rodkey Tu 10:00am - 11:50am *BSOS majors only.*	Seats (Total: 20) BPS 1228
0205	Bailey Kier, Maya Aduba W 3:00pm - 4:50pm *BSOS majors only.*	Seats (Total: 20) PLS 1146
0206	Christa Cooper, Zhichao Zheng Th 10:00am - 11:50am *BSOS majors only.*	Seats (Total: 20) CSS 0201
0207	Rosalyn Anderson-Howell Tu 3:00pm - 4:50pm *BSOS majors only.*	Seats (Total: 20) LEF 1222
0208	Kimberly Bethke M 3:00pm - 4:50pm *BSOS majors only.*	Seats (Total: 20) ASY 3221

0305	Christopher Lester W 6:00pm - 7:50pm	Seats (Total: 20) Location: TBA
	Restricted to OMSE - College Success Scholars. Class will meet in Room Nonprint Media - Hornbake Library.	
0306	Christopher Lester W 6:00pm - 7:50pm	Seats (Total: 20) Location: TBA
	OMSE- College Success Scholars. Class will meet in Room H Nonprint Medi - Hornbake Library.	
0307	Christopher Lester W 6:00pm - 7:50pm	Seats (Total: 20) Location: TBA
	OMSE-College Success Scholars. Class will meet in Room H Nonprint Media - Hornbake Library.	
0502	Jennifer Froh Th 2:00pm - 3:50pm	Seats (Total: 20) MTH B0423
	Restricted to students in the College of Education.	
0601	LaWanda Kamalidiin W 2:00pm - 3:50pm	Seats (Total: 20) EGR 3102
	Restricted to Engineering Bridge Program Participants.	
0603	Jessica Stein Th 3:00pm - 4:50pm	Seats (Total: 20) CHE 2116
	For Mechanical Engineering majors.	
0604	Nicholas Richardson Th 3:00pm - 4:50pm	Seats (Total: 20) EGR 1110
	For Freshman Engineering Students only.	
0701	Instructor: TBA W 3:00pm - 4:50pm	Seats (Total: 20) PLS 1176
	Restricted to Journalism majors.	
0702	Olive Reid W 3:00pm - 4:50pm	Seats (Total: 20) KNI 1206
	Restricted to Journalism majors.	

0801	Thomas Steen **Meets September 7, 2015 - November 20, 2015** M 2:00pm - 3:50pm *Restricted to First Semester Letters and Sciences Students.*	Seats (Total: 20) PLS 1164
0802	Thomas Castillo **Meets September 7, 2015 - November 20, 2015** Tu 2:00pm - 3:50pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) TYD 2108
0803	Emily Foley **Meets September 7, 2015 - November 20, 2015** Tu 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon Write Now community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 20) OAK 0311
0804	Gregory Shaffer **Meets September 7, 2015 - November 20, 2015** M 12:00pm - 1:50pm *Restricted to First Semester Letters and Sciences Students interested in Pre-law.*	Seats (Total: 20) PLS 1115
0805	Ann Smith **Meets September 7, 2015 - November 20, 2015** M 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon Once & Future Planet community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 20) OAK 0311
0806	Edward Bempong **Meets September 7, 2015 - November 20, 2015** W 3:30pm - 5:20pm *Restricted to First Semester Letters and Science Students. who are living on campus and not already part of a living/learning community.*	Seats (Total: 20) OAK 0318

0807	Cecelia Parks **Meets September 7, 2015 - November 20, 2015** Tu 11:00am - 12:50pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) KEY 0119
0808	Neruh Ramirez **Meets September 7, 2015 - November 20, 2015** Tu 2:00pm - 3:50pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) SPH 0301
0809	Melissa Del Rios **Meets September 7, 2015 - November 20, 2015** W 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon iGIVE community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 20) OAK 0311
0811	Michelle Udeli **Meets September 7, 2015 - November 20, 2015** M 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon Once & Future Planet community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 20) OAK 0315
0812	Kaye Guidugli **Meets September 7, 2015 - November 20, 2015** Tu 12:30pm - 2:20pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) EGR 1110

0814	Ashley Adkins **Meets September 7, 2015 - November 20, 2015** W 3:30pm - 5:20pm *For first semester Letters and Sciences students who are in the Carillon iGIVE community. Part of the Carillon Communities Living Learning program.*	Seats (Total: 20) OAK 0315
0815	Lauren Bach, Madeline Yoder **Meets September 7, 2015 - November 20, 2015** W 9:00am - 10:50am *Restricted to First Semester Letters and Sciences Students.*	Seats (Total: 20) EDU 3233
0820	Monique Brown **Meets September 7, 2015 - November 20, 2015** Th 12:30pm - 2:20pm *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) MTH 0103
0822	Lee Ann Lewis **Meets September 7, 2015 - November 20, 2015** Th 9:30am - 11:20am *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1164
0825	Katrina Knudsen, Yali Pan **Meets September 7, 2015 - November 20, 2015** Th 9:30am - 11:20am *Restricted to First SemesterInternational students in Letters and Sciences students.*	Seats (Total: 20) HBK 0103
0826	Apurva Parikh, Daniela Bulos **Meets September 7, 2015 - November 20, 2015** M 3:30pm - 5:20pm *Restricted to First Semester Letters and Sciences students.*	Seats (Total: 20) EAS 0102

0850	Randall Phyall **Meets September 7, 2015 - November 20, 2015** W 1:00pm - 2:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) PLS 1164
0851	Jessica Macklin **Meets September 7, 2015 - November 20, 2015** M 1:00pm - 2:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) ASY 3217
0852	Lisa Scheeler **Meets September 7, 2015 - November 20, 2015** W 3:00pm - 4:50pm *For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.*	Seats (Total: 20) PLS 1162
0854	Jeffrey Kodis **Meets September 7, 2015 - November 20, 2015** M 2:00pm - 3:50pm *For first semester Letters and Sciences students who are interested in STEM (Science, Technology, Mathematics, Engineering) majors or careers. Part of the STEM Exploration Series.*	Seats (Total: 20) PLS 1115
0857	Steve Leonard **Meets September 7, 2015 - November 20, 2015** W 1:00pm - 2:50pm *Restricted to First Semester Letters and Sciences Students.*	Seats (Total: 20) PLS 1146

0858	Devyn Sturdavant **Meets September 7, 2015 - November 20, 2015** W 2:00pm - 3:50pm *For first semester Letters and Sciences students interested in business Part of the Business Exploration Series.*	Seats (Total: 20) LEF 1222
0901	Thomas Gleason, Donna Hammer TuTh 11:00am - 12:15pm *Restricted to Physics majors.*	Seats (Total: 20) EGR 3106
0902	Darlene Reyes M 3:00pm - 4:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) JMZ 0208
0903	Alicia Thomas Tu 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1168
0904	Adina Ferguson Th 10:00am - 11:50am *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) JMZ 1122
0905	Francisca Saavedra Tu 11:00am - 12:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) COL 0113
0906	Marsha Guenzler-Stevens Tu 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) ITV 1111
0910	Amy Alexander M 2:00pm - 3:50pm *Restricted to CMNS majors.*	Seats (Total: 20) LEF 1221
0912	Gerry Strumpf W 12:00pm - 1:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 15) COL 1102

0913	Eden Garosi W 11:00am - 12:50pm *Restricted to BSCI, CHEM, and BCHM majors.*	Seats (Total: 20) EGR 1102
0915	Kasey Ezzat M 1:00pm - 2:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1111
0916	Sherelle Green Tu 10:00am - 11:50am *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) CSS 0201
0918	Stacy Woycheck W 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1158
0919	Arianna Lashley Th 2:00pm - 3:50pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PLS 1168
0920	Jessica Wilke Th 1:00pm - 2:50pm *Restricted to students in College Park Scholars program.*	Seats (Total: 20) CCC 1200
0925	Justin Nero W 1:00pm - 2:30pm *Restricted to BSCI-CHEM-BCHM majors.*	Seats (Total: 20) PHY 1219
0926	Rawn Boulden M 2:00pm - 3:50pm *This section restricted to BioFIRE students.*	Seats (Total: 24) EAS 1119
1101	Michael Brick Tu 9:00am - 10:50am *Restricted to Architecture majors.*	Seats (Total: 12) ARC 1127
1102	Michael Brick Th 9:00am - 10:50am *Restricted to Architecture majors.*	Seats (Total: 12) ARC 1127

1201	Zackary Hull F 11:00am - 12:15pm *Restricted to students in the School of Public Health.*	Seats (Total: 25) SPH 0305
1202	Jaime Oliver M 9:00am - 10:15am *Restricted to students in the School of Public Health.*	Seats (Total: 25) SPH 0305
1203	Polly Sebastian Schurer Th 9:30am - 10:45am *Restricted to students in the School of Public Health.*	Seats (Total: 20) SPH 0301
1204	Ron Padron Th 2:00pm - 3:15pm *Restricted to students in the School of Public Health.*	Seats (Total: 20) SPH 0301
1205	Sarah Wilson W 9:00am - 10:15am	Seats (Total: 25) JMP 1109
1206	Erin Caporellie W 11:00am - 12:15pm	Seats (Total: 20) SPH 0301
1207	Leah Grosse Tu 9:30am - 10:45am *Restricted to SPHL majors only; cannot be dropped without permission from college.*	Seats (Total: 20) SPH 0307
1501	April Brohawn Th 2:00pm - 3:50pm *Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.*	Seats (Total: 15) MTH B0431
1503	Angela Mazur-Gray M 2:00pm - 3:50pm *Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.*	Seats (Total: 15) PLS 1162
FC01	Ron Padron M 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TYD 2110

FC02	Edward Bempong Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC03	Meghan DeFord F 10:00am - 11:15am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0120
FC04	Steven Young F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0103
FC05	Victoria Shay W 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC06	Gregory Shaffer W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TYD 2110
FC07	Alyssa Neuner Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TYD 1114
FC08	Joseph Meyer Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0123
FC09	Veronica Perrigan F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1113
FC10	Erik Hanson F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) TYD 2110
FC11	Erin Iverson F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112

FC12	Steven Young M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1146
FC13	Thomas Steen M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112
FC14	Kimberly Bethke Th 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EDU 3315
FC15	Raymond Ranker F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EGR 2116
FC16	Erin Iverson F 10:00am - 11:15am *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CSS 2416
FC17	Lori Kader Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC18	TC Lloyd M 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3215
FC19	Siemy Khan F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC20	Natasha Criss Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 0103
FC21	Denise McHugh Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EDU 3233

FC22	Thomas Castillo Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC23	Alyssa Neuner Th 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC24	Heather Arianna Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112
FC25	Lori Kader F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1119
FC26	Brandon Clark Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1108
FC27	Jaime Oliver W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3221
FC28	Angela Jackson F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1117
FC29	Lauren Norris Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) MTH B0423
FC30	Jamie Fry Tu 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1115
FC31	Alison Barlow F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CSI 3118

FC32	Eric Johnson Th 4:30pm - 5:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112
FC33	Charles Kassir Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ARC 1101
FC34	Lauren Singer Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0119
FC35	Sharon Vanwright F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) EGR 3114
FC36	Glenn Smith M 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) SKN 1112
FC37	Victoria Shay W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PLS 1111
FC38	Tamara Fuller Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) PHY 1204
FC39	Amanda Torres F 11:30am - 12:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3207
FC40	Kevin McGann W 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KNI 1103
FC41	Natalie Taylor Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) HBK 1112

FC42	Rosalyn Anderson-Howell Th 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) JMZ 1124
FC43	Chynna Obana F 1:00pm - 2:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) ASY 3211
FC44	Tracy Kennedy Tu 3:00pm - 4:15pm *Restricted to students in Freshman Connection.*	Seats (Total: 20) TLF 1101
FC45	J Greene W 6:00pm - 7:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) KEY 0119
FC46	Amber Dees Tu 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 20) CHM 1224

UNIV100V **The Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0101	Tasha Vanterpool M 3:30pm - 5:30pm *This section is reserved for VETERANS ONLY. DD214 required for verification.*	Seats (Total: 25) JMZ 0118

UNIV104 **STEP: Reading and Writing at the College Level**

(Perm req)

Credits: 1 Grading Method: Regular, Pass-Fail

Restriction: Must be in STEP Individual Admits program.

A workshop designed to enhance students' college level reading and writing abilities to include study skills and strategies for success.

0201	Kaye Guidugli, Peter Grybauskas M 10:00am - 10:50am	Seats (Total: 15) ASY 3207
0301	Kaye Guidugli, Peter Grybauskas F 10:00am - 10:50am	Seats (Total: 15) ARC 1127

UNIV106 **The Transfer Student in the University**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be a first-semester Letters and Sciences transfer student. Credit only granted for: UNIV106 or EDCP108G.

For transfer students in Letters and Sciences. This course is designed to assist students in making a successful transition to the University of Maryland (UMD) and to serve as an extended orientation to campus living and learning.

0101	Melissa Hyre Tu 11:00am - 12:15pm	Seats (Total: 20) EDU 2101
0201	Ashleigh Brown Tu 2:00pm - 3:15pm	Seats (Total: 20) EGR 1102

UNIV269 **Connecting Across Cultures**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269A **Connecting Across Cultures; Cultural Realities of Spain**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV325 **Beyond the Classroom Seminar I: Civic Engagement and Social Change in a Global Context**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Develops and applies the concept of civic engagement and strategies for enhancing civic engagement and advancing social justice in different contexts (global to local; multi-cultural). Develop students' leadership capacities and skills for fostering civil discourse and effective professional practices in the nonprofit and civil society sector. Students identify the key civic values, attitudes and expectations that motivate them personally as well as others to engage in civic action and leadership. Students prepare professional portfolios in preparation of a semester-long internship.

Restricted to students in Beyond the Classroom (BTC) living and learning program. Development of effective written and oral communication skills for a variety of constituents.

0101	James Riker Tu 3:30pm - 6:00pm	Seats (Total: 40) SCC 1102
0201	James Riker W 3:30pm - 6:00pm	Seats (Total: 40) SCC 1102

UNIV326 **Beyond the Classroom Seminar II**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: UNIV325. Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Seminar for students in internships and service-learning experiences as context for applying communication skills and knowledge of civic engagement leadership skills first introduced in UNIV325. Must be taken concurrently with experiential learning practicum.

0201	Melissa Del Rios Class time/details on ELMs	Seats (Total: 15) ONLINE

UNIV348E **Federal Semester Seminar; Energy and Environmental Policy**

(Perm req)

Credits: 3 Grading Method: Regular

This topical seminar will approach Federal policy formation through a combination of framework-based and content-specific considerations. Content and themes will vary. The Federal Semester is an offering of the Office of Undergraduate Studies in conjunction with several academic colleges and the University Career Center.

Restriction: Must be in the Federal Semester Program. Permission to enroll required. This course will explore issues of environmental sustainability through an investigation of federal policymaking in energy, climate change, and sustainable development. Students will examine efforts of the U.S. government to respond to linked challenges of increasing energy demand, climate change, growing population, and poverty alleviation.

0101	Thomas Carter, Ed Fendley	Seats (Total: 25)
	Th 3:30pm - 6:30pm	HBK 0115

UNIV348P **Federal Semester Seminar; Federal Health Policy**

(Perm req)

Credits: 3 Grading Method: Regular

This topical seminar will approach Federal policy formation through a combination of framework-based and content-specific considerations. Content and themes will vary. The Federal Semester is an offering of the Office of Undergraduate Studies in conjunction with several academic colleges and the University Career Center.

This course explores the challenges facing the American health care system as well as teh formulation and implementation of health policy. Must be in the Federal Semester Program. Permission to enroll required.

0101	Elaine Anderson, Samuel Kessel	Seats (Total: 25)
	Tu 3:30pm - 6:30pm	CCC 1105

UNIV348T **Federal Semester Seminar; Federal Homeland Security Policy**

(Perm req)

Credits: 3 Grading Method: Regular

This topical seminar will approach Federal policy formation through a combination of framework-based and content-specific considerations. Content and themes will vary. The Federal Semester is an offering of the Office of Undergraduate Studies in conjunction with several academic colleges and the University Career Center.

Restriction: Must be in the Federal Semester Program. Permission to enroll required. This course will examine the concept of U.S. homeland and national security, threats, and major vulnerabilities in the context of recent history.

0101	Magdalena Bajll, Sina Beaghley	Seats (Total: 25)
	W 6:30pm - 9:30pm	PLS 1146

UNIV378 **Beyond the Classroom Experiential Learning; Beyond Classroom Experiential Learning**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

This is the internship component of the Beyond the Classroom program in which students hold internships at organizations such as governmental units and non-profit agencies.

0101	James Riker	Seats (Total: 15)
	Contact instructor or department for details.	

UNIV389A **Special Topics in Undergraduate Studies; Army ROTC Independent Study Projects**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Larry Rentz	Seats (Total: 20)
	Contact instructor or department for details.	

UNIV389B **Special Topics in Undergraduate Studies; Responses to Global Challenges: A Practitioner's Perspective**

(Perm req)

Credits: 3 Grading Method: Regular

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Restriction: Must be in the Global Semester in Washington, D.C. Program. Permission to enroll required. The course will examine global issues and responses primarily from the perspective of the practitioner. The focus will be on social, humanitarian, and human rights issues set in different global contexts.

0101	Rhoda Margesson	Seats (Total: 25)
	W 5:00pm - 8:00pm	SQH 1105

UNIV389C **Special Topics in Undergraduate Studies; U.S. Diplomacy and Public Policymaking**

(Perm req)

Credits: 3 Grading Method: Regular

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Restriction: Must be in the Global Semester in Washington, D.C. Program. Permission to enroll required. The course will examine questions in the practice of contemporary diplomacy and policymaking from the perspective of the United States. Guest lecturers drawn from Washington policymaking and foreign service communities will visit class and participate in discussion.

0101	Jane Rhee, Ylber Bajraktari Th 7:30pm - 10:30pm	Seats (Total: 23) PLS 1172

UNIV389F **Special Topics in Undergraduate Studies; Science Diplomacy: Foreign Policy and Science, Technology and Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Science Diplomacy requires enhanced linkages between our scientific and technological communities and our foreign policy makers to help ensure that our policies are technically sound, programmatically viable and politically feasible. This seminar will examine the growing nexus between foreign policy and science, technology, & innovation with specific sectoral assessments to include climate change and energy, public health, space and innovation, and economic development. Students must be in the Global Semester in Washington, D.C. Program to enroll.

0101	Griffin Thompson, Jonathan Margolis W 5:00pm - 8:00pm	Seats (Total: 25) SQH 1101

UNIV389J **Special Topics in Undergraduate Studies; Federal Independent Study Projects**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: Permission of instructor.

0101	Joan Burton Contact instructor or department for details.	Seats (Total: 25)
0201	Joan Burton Contact instructor or department for details.	Seats (Total: 25)

UNIV389L **Special Topics in Undergraduate Studies; BTC Seminar III, Civic Leadership for Community Engagement**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: UNIV325 and UNIV326.

0101	James Riker	Seats (Total: 20)
	Contact instructor or department for details.	

UNIV399 **Experiential Learning in Undergraduate Studies**

Credits: 1 Grading Method: Regular

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

0101	Douglas Roberts	Seats (Total: 1)
	Contact instructor or department for details.	
0201	Instructor: TBA	Seats (Total: 10)

UNIV399C **Experiential Learning in Undergraduate Studies; Ensuring a World Fit for Children? Rethinking Our Civic Responsibilities**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

Students will explore the status of children (i.e., standards of living) and the key challenges (i.e., education, health, homelessness, poverty, war and conflict) they face in around the world the 21st Century. What prospects do children born today face and what is required to ensure a world fit for children? What is the civic responsibility of citizens, government and society to address these challenges and improve the opportunities for all children? How can the international community strengthen its commitment to children's welfare, well-being, and life opportunities around the world? The seminar will highlight promising strategies for improving children's well-being in the United States, Europe, the Middle East and the developing world. The seminar will draw directly on the perspectives of leading nonprofit and civil society leaders through formal presentations and documentary films to identify possible policies and practices that will ensure a world fit for children.

0101	James Riker	Seats (Total: 40)
	M 7:00pm - 9:00pm	SCC 1102

URSP Urban Studies and Planning Fall 2015

URSP250 **The Sustainable City: Exploring Opportunities and Challanges**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSSP, SCIS

An exploration, through an interdisciplinary approach, of a number of issues related to making cities more sustainable in terms of environmental protection, economic opportunity, and social justice. The course assist students to develop skills in critical analysis and systems thinking and to use those skills in analyzing sustainability related problems and potential solutions, and to expand students' understanding of the political implications of crafting and moving towards a sustainable urban future.

0101	James Cohen M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 22) TWS 1100 ARC 1101	Discussion
0102	James Cohen M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 22) TWS 1100 ARC 1105	Discussion
0103	James Cohen M 9:30am - 10:45am W 9:30am - 10:45am	Seats (Total: 21) TWS 1100 TWS 0236	Discussion

URSP372 **Diversity and the City**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Exploration of the different needs of diverse economic, racial/ethnic, and gender groups that live and work in cities, the historical background of differences, the impact of societal structures and group cultures, and how public and private policies do and can affect different groups.

0101	Willow Lung Amam MW 2:00pm - 3:15pm	Seats (Total: 25) JMZ 0122

URSP399I **Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP601 **Research Methods**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Recommended: URSP600; and an undergraduate-level statistics course; and familiarity with Microsoft Excel. Formerly: URBS601.

Use of measurement, statistics, quantitative analysis, and micro-computers in urban studies and planning.

0101	Casey Dawkins	Seats (Total: 15)
	W 4:00pm - 6:30pm	ARC 0111

URSP604 **The Planning Process**

Credits: 3 Grading Method: Regular

Credit only granted for: URSP604, URBS656, or URBS604. Formerly: URBS604.

Problem formulation, goal setting, generating and evaluating alternatives, budgeting, implementation. Working with committees and communities, conducting meetings, making decisions, and making presentations.

0101	Alexander Chen	Seats (Total: 20)
	M 4:00pm - 6:45pm	SQH 1119

URSP605 **Planning History and Theory**

Credits: 3 Grading Method: Regular, Audit

Exploration of the major events and issues in United States planning history, the prevailing theories of planning, and the planning history-theory relationship. Emphasis on urban planning.

0101	James Cohen	Seats (Total: 28)
	M 7:00pm - 9:40pm	ARC 1105

URSP606 **Microeconomics of Planning and Public Policy**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed URSP630. Credit only granted for: URSP606, URBS606, or URBS630. Formerly: URBS606.

Resource allocation in a market economy, the nature of market failures, and the justifications for public sector intervention. The limits and possibilities for planning in a market economy.

0101	Marie Howland	Seats (Total: 15)
	Tu 4:00pm - 6:30pm	ARC 1125

URSP688L **Recent Developments in Urban Studies; Planning Technology**

Credits: 3

Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

An introduction to technologies that are vital for contemporary planners. With a strong emphasis on practical skills, the course will provide students with fundamental concepts, hands-on experience and real-world applications of such urban planning technologies as web publishing and tools, search engine optimization, blogs, Twitter and social networking, Geographic Information Systems (GIS), data visualization, 3D modeling, mash-ups, digital design tools, web surveys, photo/video sharing (web/video conferencing), and crowdsourcing

0101	Chao Liu	Seats (Total: 20)
	W 7:00pm - 9:40pm	ARC 1115

URSP688N **Recent Developments in Urban Studies; Urban Transportation Planning and Policy**

Credits: 3

Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Hiroyuki Iseki	Seats (Total: 15)
	M 4:00pm - 6:45pm	JMZ 3203

URSP688Q **Recent Developments in Urban Studies; Urban Economics**

Credits: 3

Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Chengri Ding	Seats (Total: 10)
	Tu 1:00pm - 3:30pm	PKT 1112V

URSP688Z **Recent Developments in Urban Studies; Planning and Design in the Multicultural Metropolis**

Credits: 3

Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Willow Lung Amam	Seats (Total: 20)
	Th 7:00pm - 9:40pm	ARC 1127

URSP708 **Community Planning Studio**

Credits: 6 Grading Method: Regular, Audit

The Community Planning Studio is a "capstone" course intended to provid students with an opportunity to apply their knowledge and skills to analyze current, pressing planning issues, in a selected community and to produce a report containing recommendations for addressing those issues. In essence, students act as a consulting team for a community client.

0101	Christopher Dempwolf	Seats (Total: 12)
	Tu 7:00pm - 9:40pm	ARC 1119
	Th 4:00pm - 6:30pm	ARC 1119

URSP709 **Field Instruction**

Credits: 3 Grading Method: Regular, Audit

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

0101	James Cohen	Seats (Total: 20)
	Contact instructor or department for details.	

URSP710 **Research Seminar: Urban Theory and Issues**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: 15 credits in URSP courses. Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program. Formerly: URBS710.

An advanced research seminar for M.A. and M.C.P. students preparing their final research projects.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

URSP788 **Independent Study in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798 **Readings in Urban Studies and Planning**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

URSP810 **Contemporary Metropolitan Issues**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program.

Introduces Ph.D. students to current metropolitan issues. Focus is on the historical development of the issue, problem definition, methodological approaches to its study, methodological dilemmas, and the ways that different conclusions are translated into policy. Topics vary from semester to semester but include such topics as the spatial mismatch hpothesis, the impact of urban design and form on travel behavior, the impact of technology on urban form, the justification for historic preservation, and sustainable development.

0101	Marie Howland	Seats (Total: 10)
	M 1:00pm - 3:40pm	ARC 1119

URSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 **Doctoral Dissertation Research**

(Perm req) Credits: 6 Grading Method: Sat-Fail

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

USLT Latina/o Studies Fall 2015

Please visit http://amst.umd.edu/programs/course/ for more course information.

USLT201 U.S. Latina/o Studies I: An Historical Overview to the 1960's

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D

Interdisciplinary course focusing on demographics, terminology and social constructs of race, class, ethnicity, indigeneity, gender, and sexuality associated with the historical and political roots of US Latinidades. Examines the formation, evolution an adaptation of US Latina/o communities as critical field of inquiry.

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1105

USLT369A Special Topics in Study Abroad III; Thinking in Andalusian: The Antonio Machado Family of Seville

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

USLT498A US Latina/o Studies: Special Topics; Latinas/os on the Silver Screen

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Specific content to be announced when courses are offered.

Also offered as AMST498G. Credit granted for USLT498A or AMST498G.

0101	Robert Chester	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1107

USLT498I US Latina/o Studies: Special Topics; Citizens, Immigrants, and Refugees

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Specific content to be announced when courses are offered.

Also offered as AMST498N and IMMR419D. Credit granted for AMST498N or USLT498I. Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Perla Guerrero	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SQH 1103

VMSC Veterinary Medical Sciences Fall 2015

VMSC688A **Special Topics in Veterinary Medical Sciences; Advances in Reverse Genetics of Animal Viruses**

Credits: 1-4 Grading Method: Regular

Lectures and discussions on current topics in veterinary medicine s as animal disease surveillance, risk analysis, molecular epidemiolo or fish pathology. Targeted at veterinary medicine (DVM) students a other graduate students with a background in veterinary medical sciences.

0101	Siba Samal	Seats (Total: 20)
	Contact instructor or department for details.	

VMSC698 **Seminar in Veterinary Medical Science**

Credits: 1-3 Grading Method: Regular

Presentation and discussion of scientific publications, current topics and new methodologies related to veterinary medical sciences.

Class will meet in 1216 Gudelsky Building.

0101	Sunil Khattar	Seats (Total: 20)
	Th 11:00am - 12:00pm	GVC 1216

VMSC699 **Special Problems in Veterinary Medical Sciences**

Credits: 1-4 Grading Method: Regular

Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.

Contact department for information to register for this course.

VMSC700 **Animal Health Policy and Communication**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of AGNR-Veterinary Medicine Program department.

An introduction to animal health policy with emphasis on understanding how science and politics interact and influence animal health policy and how veterinarians and animal scientists can effectively communicate science to non-scientists such as legislators and policymakers.

0101	Nathaniel Tablante	Seats (Total: 10)
	TuTh 2:00pm - 3:30pm	GVC 1131

VMSC760 **Immunology of Infectious Diseases**

Credits: 3 Grading Method: Regular, Audit

An advanced graduate level course that focuses on the cutting-edge knowledge of immunity and recent research breakthroughs in the interactions between host immune system and infectious pathogen, and vaccine development

0101	Meiqing Shi	Seats (Total: 25)
	TuTh 1:45pm - 3:00pm	PLS 1115

VMSC799 **Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

VMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

VMSC899 **Dissertation Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST Women's Studies Fall 2015

WMST200 **Introduction to Women's Studies: Women and Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

An interdisciplinary study of the status, roles, and experiences of women in society. Sources from a variety of fields such as literature, psychology, history, and anthropology, focusing on the writings of women.

0101	Sun Kim TuTh 9:30am - 10:45am	Seats (Total: 25) KEY 0125	
0201	Sun Kim TuTh 12:30pm - 1:45pm	Seats (Total: 25) ASY 3219	

WMST250 **Introduction to Women's Studies: Women, Art and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA, D | General Education: DSHU, DVUP

An examination of women's creative powers as expressed in selected examples of music, film, art, drama, poetry, fiction, and other literature. Explores women's creativity in relation to families, religion, education, ethnicity, class, sexuality, and within a cultural tradition shaped by women.

0101	Justin Sprague TuTh 9:30am - 10:45am	Seats (Total: 25) KEY 0124	
0201	Justin Sprague TuTh 12:30pm - 1:45pm	Seats (Total: 25) JMZ 0125	
0301	Katie King Tu 3:00pm - 4:40pm Th 3:00pm - 3:50pm	Seats (Total: 23) JMZ 0220 KEY 0102	Discussion
0302	Katie King Tu 3:00pm - 4:40pm Th 4:00pm - 4:50pm	Seats (Total: 23) JMZ 0220 KEY 0120	Discussion
0303	Katie King Tu 3:00pm - 4:40pm Th 4:00pm - 4:50pm	Seats (Total: 23) JMZ 0220 HBK 1108	Discussion
0304	Katie King Tu 3:00pm - 4:40pm Th 3:00pm - 3:50pm	Seats (Total: 23) JMZ 0220 JMZ 0120	Discussion
0305	Katie King Tu 3:00pm - 4:40pm Th 3:00pm - 3:50pm	Seats (Total: 23) JMZ 0220 JMZ 1120	Discussion

0401	Avery Dame TuTh 2:00pm - 3:15pm	Seats (Total: 25) WDS 1130
0501	Sara Haq TuTh 11:00am - 12:15pm	Seats (Total: 25) WDS 1130
0601	Melissa Stevens TuTh 12:30pm - 1:45pm	Seats (Total: 25) JUL 1105
0701	Donnesha Blake MWF 11:00am - 11:50am	Seats (Total: 25) WDS 0104
0801	Eve Grice MWF 12:00pm - 12:50pm	Seats (Total: 25) HBK 1112
0901	Jaime Madden MW 3:30pm - 4:45pm	Seats (Total: 25) KEY 0121
FC01	Justin Sprague MW 7:30pm - 8:45pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) WDS 1130
FC02	Avery Dame MW 3:00pm - 4:15pm *Restricted to students in Freshmen Connection.*	Seats (Total: 25) WDS 1130

WMST255 **Reading Women Writing**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: HL, D	General Education: DSHU, DVUP

Also offered as: ENGL250. Credit only granted for: WMST255 or ENGL250.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Virginia Butler TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1105

WMST263 **Introduction to Black Women's Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: WMST298A, AASP298I, or AASP298S. Formerly: WMST298A.

Interdisciplinary exploration of Black women, culture and society in the United States. Drawn primarily from the social sciences and history with complementary material from literature and the arts.

0101	Lamonda Horton-Stallings	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	ASY 3211

WMST269G **Special Topics in Study Abroad II; Topics on Gender Studies**

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269I **Special Topics in Study Abroad II; Social Problems: Women's Issues (In Indian Society)**

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269W **Special Topics in Study Abroad II; Social Problems: Women's Issues Field Study**

Credits: 1 | Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST275 **World Literature by Women**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL, D | General Education: DSHU, DVUP

Also offered as: CMLT275. Credit only granted for: WMST275 or CMLT275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0201	Manon Soulet MW 2:00pm - 3:15pm	Seats (Total: 30) JMP 2202
0301	Nataliya Pratsovyta TuTh 5:00pm - 6:15pm	Seats (Total: 30) TWS 1107

WMST300 **Feminist Reconceptualizations of Knowledge**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department; and must be in Women's Studies program.

An examination of how the interdisciplinary study of women and gender has generated new questions, challenged traditional methodologies and offered insights on the ways we come to learn, know, and teach. Explores the impact of feminist thinking on various disciplines.

0101	Catherine Schuler TuTh 11:00am - 12:15pm	Seats (Total: 15) WDS 2101R

WMST314 **Black Women in United States History**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Sophomore standing or higher. Also offered as: AASP313. Credit only granted for: AASP313, AASP498W, HIST329E, WMST314, or WMST498N. Formerly: WMST498N.

Black American women's history from slavery to the present. Focused on gaining a fuller understanding of the effect of race, class and gender on the life cycles and multiple roles of Black women as mothers, daughters, wives, workers and social-change agents.

0101	Elsa Barkley Brown W 5:30pm - 8:00pm	Seats (Total: 35) KEY 0103

WMST325 **The Sociology of Gender**

Credits: 3 Grading Method: Regular, Audit , D

Prerequisite: 3 credits in SOCY courses. Also offered as: SOCY325. Credit only granted for: SOCY325 or WMST325.

Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.

0101	Perry Threlfall MWF 8:00am - 8:50am	Seats (Total: 60) ASY 2309
0301	Perry Threlfall MWF 10:00am - 10:50am	Seats (Total: 80) ASY 2309
0901	Liana Sayer TuTh 12:30pm - 1:45pm	Seats (Total: 80) ASY 1213

WMST336 **Psychology of Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: PSYC336. Credit only granted for: PSYC336 or WMST336.

A study of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to undergraduate PSYC students or WMST students only.

0101	Nazish Salahuddin MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 99) SHM 2102 ONLINE

WMST348F **Literary Works by Women; Women on the Frontier**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

The context, form, style and meaning of literary works by women.

0101	Leigh Ryan TuTh 9:30am - 10:45am	Seats (Total: 28) TWS 1106

WMST348J **Literary Works by Women; Women and Jewish Literature**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

The context, form, style and meaning of literary works by women.

Also offered as JWST319C, CMLT398K and ENGL348J. Credit granted for JWST319C, ENGL348J, WMST348J, or CMLT398K. An exploration of Jewish women and Jewish literacy. What kind of access throughout Jewish history have women had to Jewish languages and literatures, and how has that affected their role in Jewish society? During the modern period, what is the link between Jewish women's authorship and their reading lives? In this class we will study essays, fiction, memoirs, poetry and drama.

0101	Sheila Jelen	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	TWS 0236

WMST350 **Feminist Pedagogy**

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department.

General application of feminist methodology to teaching and communication skills, teaching strategies, motivation, classroom dynamics and knowledge of students' development and learning styles.

Contact department for information to register for this course.

WMST369G **Special Topics in Study Abroad III; Gender and Post Socialist Transformation in Central Europe**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST386 **Experiential Learning**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail

Restriction: Must have Learning Proposal approved by Women's Studies Academic Advisor; and junior standing or higher.

Contact department for information to register for this course.

WMST400 **Theories of Feminism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course in WMST; or must have completed a course cross-listed with a WMST course.

A study of the multiplicity of feminist theories which have been developed to explain women's position in the family, the workplace, and society. Major feminist writings are considered in the context of their historical moment and in the context of the intellectual traditions to which they relate.

0101	Michele Prince	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1121

WMST448A **Literature by Women of Color; Caribbean Literature by Women**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Literature by women of color in the United States, Britain, and in colonial and post-colonial countries.

Prerequisite: two English courses in literature or permission of department. Repeatable to 9 credits if content differs. Also offered as ENGL448A and LASC448A. Credit will be granted for only one of the only following: ENGL448A, LASC448A or WMST448A.

0101	Merle Collins	Seats (Total: 23)
	TuTh 11:00am - 12:15pm	TWS 1107

WMST452 **Women in the Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

Also offered as: JOUR452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Linda Steiner	Seats (Total: 30)
	TuTh 9:30am - 10:45am	KNI 1105

WMST456 **Women and Society in the Middle East**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: Prior coursework in Middle East studies or gender studies. Also offered as: HIST492. Credit only granted for: HIST492 or WMST456.

Examines the customs, values and institutions that have shaped women's experience in the Middle East in the past and in the contemporary Middle East.

0101	Madeline Zilfi Th 2:00pm - 4:00pm Contact instructor or department for details.	Seats (Total: 18) TLF 2103

WMST471 **Women's Health**

Credits: 3 Grading Method: Regular, Audit , D

Restriction: Must be in a major within ARHU-Women's Studies department; or must be in a major within SPHL-Behavioral & Community Health department. Also offered as: HLTH471. Credit only granted for: HLTH471 or WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

Also offered as: HLTH471H.

SG91	Sabrina Matoff-Stepp Tu 5:00pm - 7:50pm	Seats (Total: 36) Location: TBA

WMST488P **Senior Seminar; Gendering Postmodern Performance**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Seminar for advanced majors in women's studies or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

0101	Catherine Schuler Th 2:00pm - 4:30pm	Seats (Total: 15) JMZ 3118

WMST496 **African-American Women Filmmakers**

Credits: 3 Grading Method: Regular, Pass-Fail , D

Examines the cinematic artistry of African-American women filmmakers an the ways in which these films address the dual and inseparable roles of race and gender.

Also offered as AASP498F and THET428W. Credit granted for WMST496, AASP498F, or THET428W.

0101	Lamonda Horton-Stallings Tu 5:30pm - 8:00pm	Seats (Total: 20) HBK 0302J

WMST498A **Advanced Special Topics in Women's Studies; Community Interventions: Domestic Violence**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Karen O'Brien	Seats (Total: 31)
	MW 8:00am - 9:15am	PLS 1111

WMST498C **Advanced Special Topics in Women's Studies; Asian American Sexualities**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as AAST498E, AMST418T, and LGBT448E. Credit will be granted for AAST498E, AMST418T, LGBT448E or WMST498C.

0101	Jeannette Soon-Ludes	Seats (Total: 30)
	MW 3:30pm - 4:45pm	KEY 0120

WMST498J **Advanced Special Topics in Women's Studies; Contemporary Chinese and Chinese-American Cinema on Women**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Also offered as ARTH488C and FILM429C. Credit granted for ARTH488C, FILM429C, or WMST498J. Through a transnational study of major filmmakers from mainland China to Hong Kong, Taiwan, and the Chinese diaspora, the course is intended to consider issues of female cinematic authorship, gender and sexuality in cinematic representation, power and knowledge, negotiations of local and global cultural politics.

0101	Jason Kuo	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	HBK 0302J

WMST498L **Advanced Special Topics in Women's Studies; Women in Israel**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

WMST498N **Advanced Special Topics in Women's Studies; Religion, Militarism & Gender**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

0101	Ashwini Tambe	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	MTH 0105

WMST498P **Advanced Special Topics in Women's Studies; Gender, Race, and Digital Media: Transforming Cultures and Technologies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

0101	Alexis Lothian	Seats (Total: 25)
	W 3:00pm - 5:30pm	MMH 1304

WMST498T **Advanced Special Topics in Women's Studies; Judaism through Gender**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST409E. Credit granted for JWST409E or WMST498T. A consideration of the study of Jewish history, literature, culture, and ideas through the lens of gender studies: what does it mean to be a Jewish man or woman? How does Jewish law, tradition, and social structure assume the importance of gender norms, even as these norms are always under discussion and dispute? Research seminar; students will work through advanced source material and subject matter, cultivating research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

0101	Maxine Grossman	Seats (Total: 15)
	W 2:00pm - 4:30pm	SQH 1111

WMST499 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST601 **Approaches to Women's Studies I**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: WMST400; or students who have taken courses with comparable content may contact the department.

Examines two fundamental concepts in women's studies: intersectionality and interdisciplinarity. Looks at how feminisms have shaped and been shaped by knowledge-production within and across disciplinary boundaries, cultures, and paradigms. Develops an appreciation of intersectional theory as a critical research tool and as a set of responses to issues of power, domination, oppression and other loci of difference.

0101	Michelle Rowley	Seats (Total: 15)
	Tu 4:00pm - 6:30pm	WDS 2101R

WMST618 **Feminist Pedagogy**

(Perm req)

Credits: 3 Grading Method: Regular

Examines the higher education classroom from a feminist perspective through theory and analysis. Students are graduate teaching assistants with the Women's Studies department.

Prerequisite: permission of department. For WMST major onlys.

0101	Katie King	Seats (Total: 4)
	Contact instructor or department for details.	

WMST619 **Women's Studies Teaching Practicum**

(Perm req)

Credits: 1 Grading Method: Regular

Provides Women's Studies graduate teaching assistants with ongoing regular faculty supervision during the semesters the students are teaching WMST courses.

Prerequisite: permission of department. For WMST majors only.

0101	Seung-Kyung Kim	Seats (Total: 10)
	Contact instructor or department for details.	

WMST628 **Women's Studies Colloquium**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

An intensive advanced exploration of current problems and issues in women's studies.

0101	Michelle Rowley	Seats (Total: 18)
	Contact instructor or department for details.	

WMST698N **Special Topics in Women's Studies; Religion, Militarism & Gender**

Credits: 3 Grading Method: Regular, Audit

Advanced worik in selected topics in Women's Studies.

0101	Ashwini Tambe Tu 2:00pm - 4:30pm	Seats (Total: 5) MTH 0105

WMST699 **Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST709 **Directed Independent Reading for Major Field Exam**

(Perm req)

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Major Field Exam. In consultation with their advisors, students identify, analyze, critique and synthesize material relevant to their major fields of inquiry. Grading will be based on combinations of oral performance in the bi-weekly meetings, production of annotated bibliographies and synthetic papers.

0101	Elsa Barkley Brown Contact instructor or department for details.	Seats (Total: 2)
0201	Augusta Bolles Contact instructor or department for details.	Seats (Total: 2)
0401	Seung-Kyung Kim Contact instructor or department for details.	Seats (Total: 2)
0501	Katie King Contact instructor or department for details.	Seats (Total: 2)
0601	Alexis Lothian Contact instructor or department for details.	Seats (Total: 2)
0701	Deborah Rosenfelt Contact instructor or department for details.	Seats (Total: 2)
0901	Michelle Rowley Contact instructor or department for details.	Seats (Total: 2)

1001	Catherine Schuler Contact instructor or department for details.	Seats (Total: 2)
1101	Ashwini Tambe Contact instructor or department for details.	Seats (Total: 2)
1201	Ruth Zambrana Contact instructor or department for details.	Seats (Total: 2)

WMST799 **Masters Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

WMST899 **Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.